

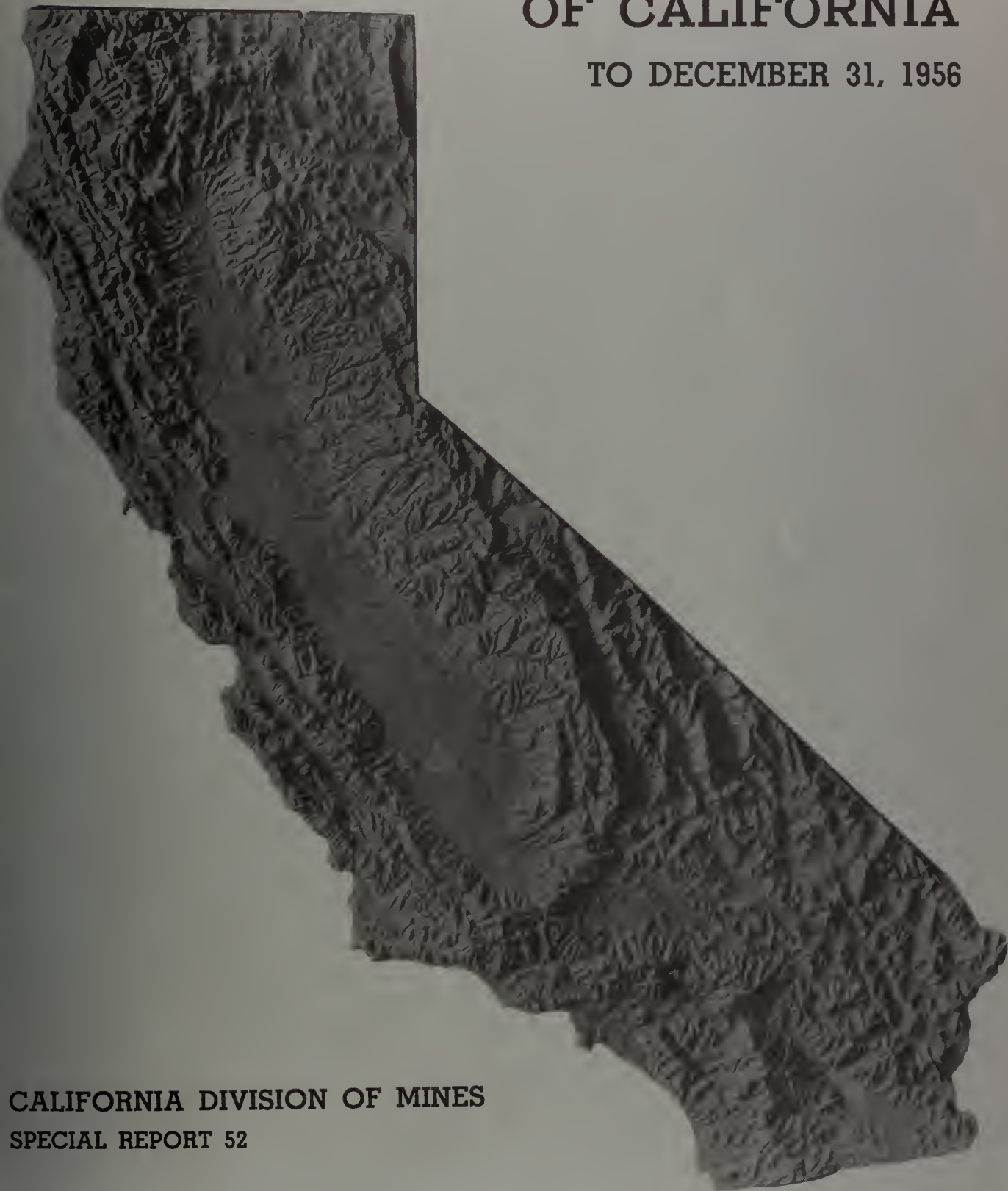
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INDEX TO GEOLOGIC MAPS OF CALIFORNIA

TO DECEMBER 31, 1956



CALIFORNIA DIVISION OF MINES
SPECIAL REPORT 52



STATE OF CALIFORNIA
GOODWIN J. KNIGHT, Governor
DEPARTMENT OF NATURAL RESOURCES
DeWITT NELSON, Director

DIVISION OF MINES
FERRY BUILDING, SAN FRANCISCO 11
GORDON B. OAKESHOTT, Chief

SAN FRANCISCO

SPECIAL REPORT 52

JUNE 1958

INDEX TO
GEOLOGIC MAPS OF
CALIFORNIA
TO DECEMBER 31, 1956

By R. G. STRAND, J. B. KOENIG, and C. W. JENNINGS



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INDEX TO GEOLOGIC MAPS OF CALIFORNIA TO DECEMBER 31, 1956

By R. G. STRAND,* J. B. KOENIG,* AND C. W. JENNINGS *

INTRODUCTION

This index of published *areal* geologic mapping was prepared in conjunction with the State Division of Mines project of compiling a new geologic map of the state. The index has also proved its value in providing the Public Information Section of the Division of Mines with the latest references on published geologic maps. To make this information readily available to geologists and engineers who have constant need for up-to-date bibliographic material, the Division is publishing this in a format that will permit rapid and wide distribution. The authors would appreciate being informed of errors or omissions in this index.

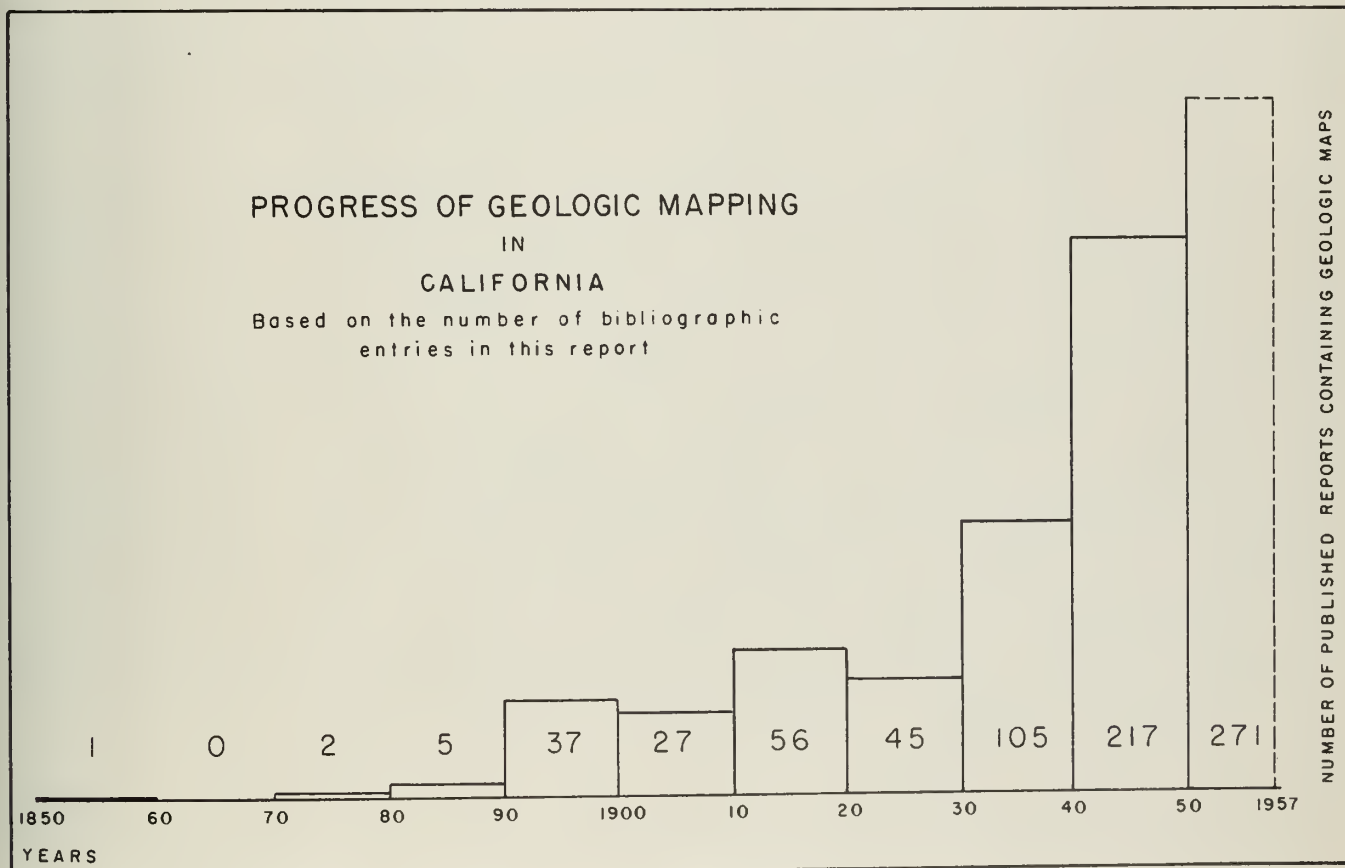
Acknowledgements. "Geologic Map Index of California," prepared in 1950 by Miss Leona Boardman of the U. S. Geological Survey, was published in 1952. We wish to acknowledge her work, much of which we have incorporated in this report. We also wish to acknowledge the check lists of reports published since 1951, compiled by Mr. Alfred Bove of the U. S. Geological Survey and Mrs. Ruth R. King, Bibliographer of the U. S. Geological Survey. These lists were checked and the maps plotted on our index map sheets.

* Mining Geologist, California Division of Mines.

Scope. This Special Report is an index to areal geologic mapping and in this respect differs somewhat from the earlier index map of the U. S. Geological Survey which included selected references to underground mine maps, some structure contour maps, and offshore maps. Neither the earlier map nor this index lists maps of a scale smaller than 1:2,500,000. Approximately 265 entries have been added to Miss Boardman's report, making this present index a guide to 760 separate geologic maps.

Index Map Sheets. For the sake of convenience, the state index has been divided into 30 distinct areas which correspond to the areas covered by the Army Map Service 1:250,000 scale topographic sheets. In general, these sheets cover an area bounded by 2 degrees of longitude and 1 degree of latitude. An outline map of the state, on a following page, shows the name and location of each of these sheets. The order of the separate index map sheets in the text follows in the alphabetical sequence of the names assigned by the Army Map Service.

For any one area covered by an A.M.S. sheet, this report contains from one to five geologic index map sheets. This has been done to promote clarity where otherwise the boundaries of many geologic maps would



overlap. This system also permits the segregation of earlier and later work. To insure obtaining all references for a particular area, it may be necessary to refer to more than one index map sheet.

Numbering System. The numbering system serves as a code for identifying individual reports. It was devised to convey readily the year in which the work first appeared (with the exception of some reports pertaining to remapped areas). The number assigned to a particular work consists of two parts, the first being a contraction of the year of publication and the second part an identifying number for that particular year. For example, a number such as 52-5 would refer to the 5th report in 1952. Letter designations, a, b, c, etc., may follow the digits and refer to different map plates published in the same report.

Bibliography and Author Index. The bibliographic references are listed in chronological order on the pages facing the index map sheets. The author named is the one who wrote the published text and may not be the

same as the author of the geologic map. This system was used to simplify library research.

At the end of the text is a list of author citations arranged in alphabetical order. The map sheet or sheets on which the area of the author's map appears is indicated in abbreviated form.

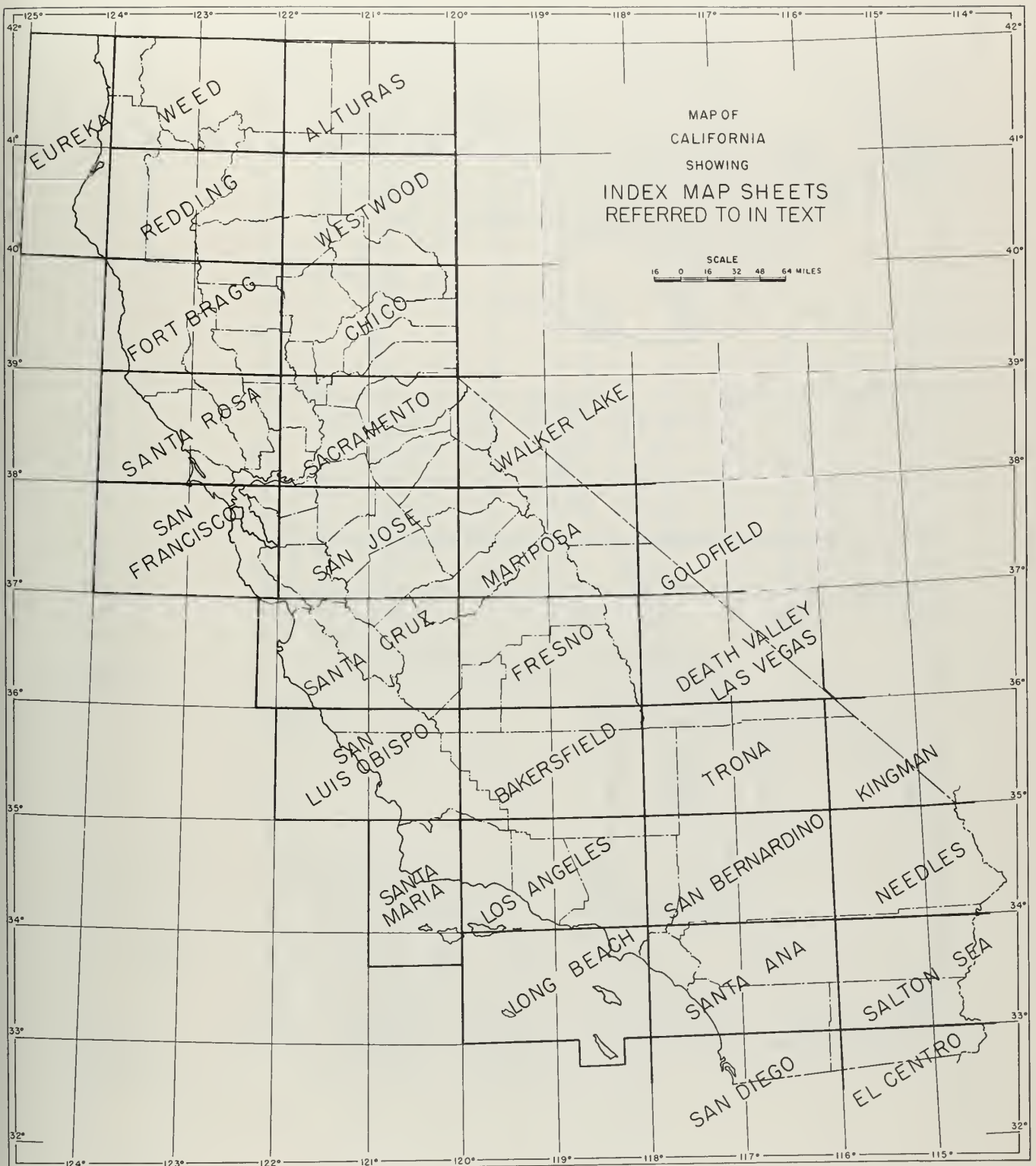
GEOLOGIC MAPS OF ENTIRE STATE

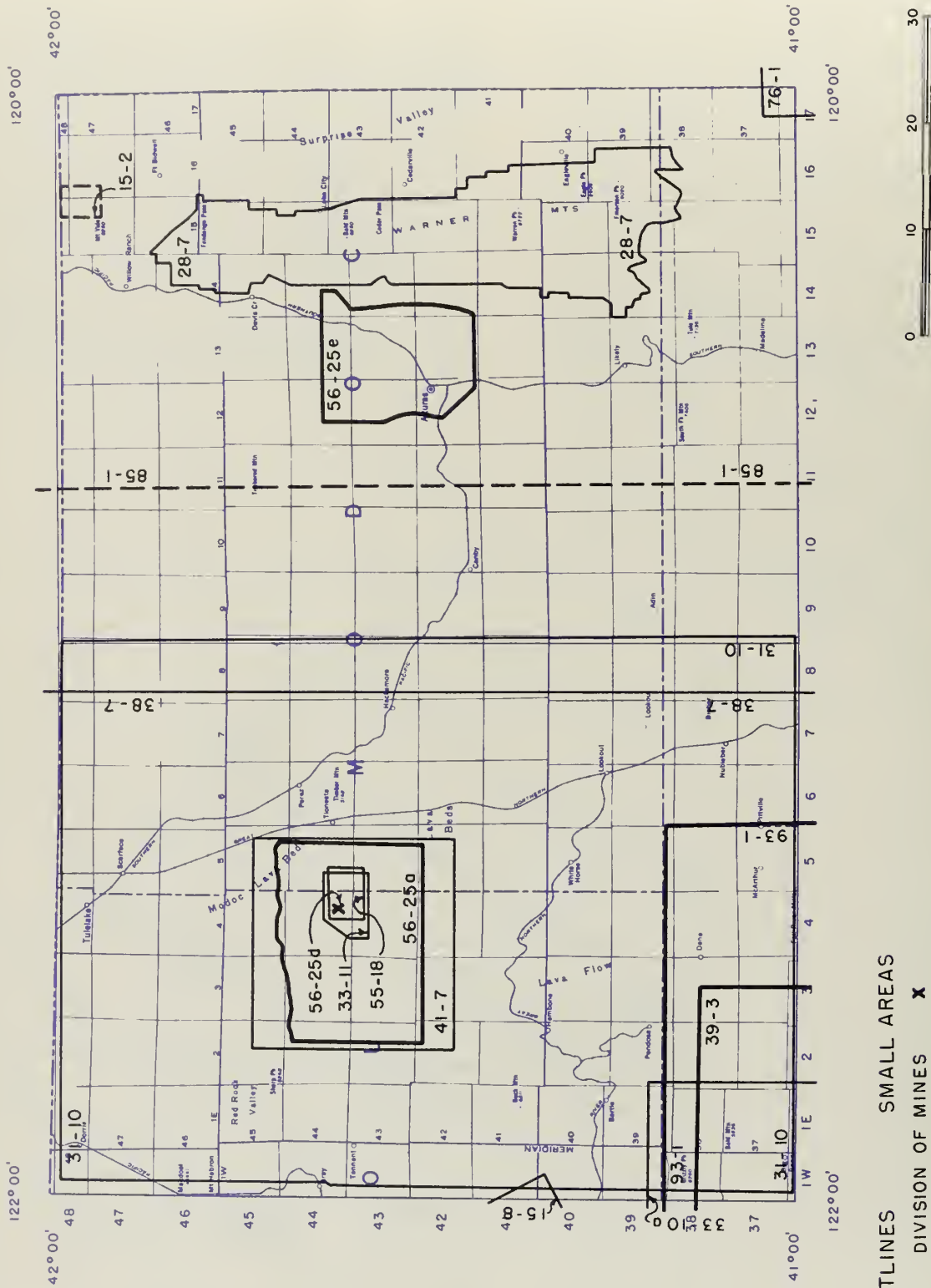
The following three bibliographic entries describe all previous geologic maps of the state now out of print. Inasmuch as they show the geology of all the areas in this index, the references to them are not given on each individual sheet.

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Jenkins, Olaf P., 1938, Geologic map of California, scale 1:500,000. California Div. Mines.



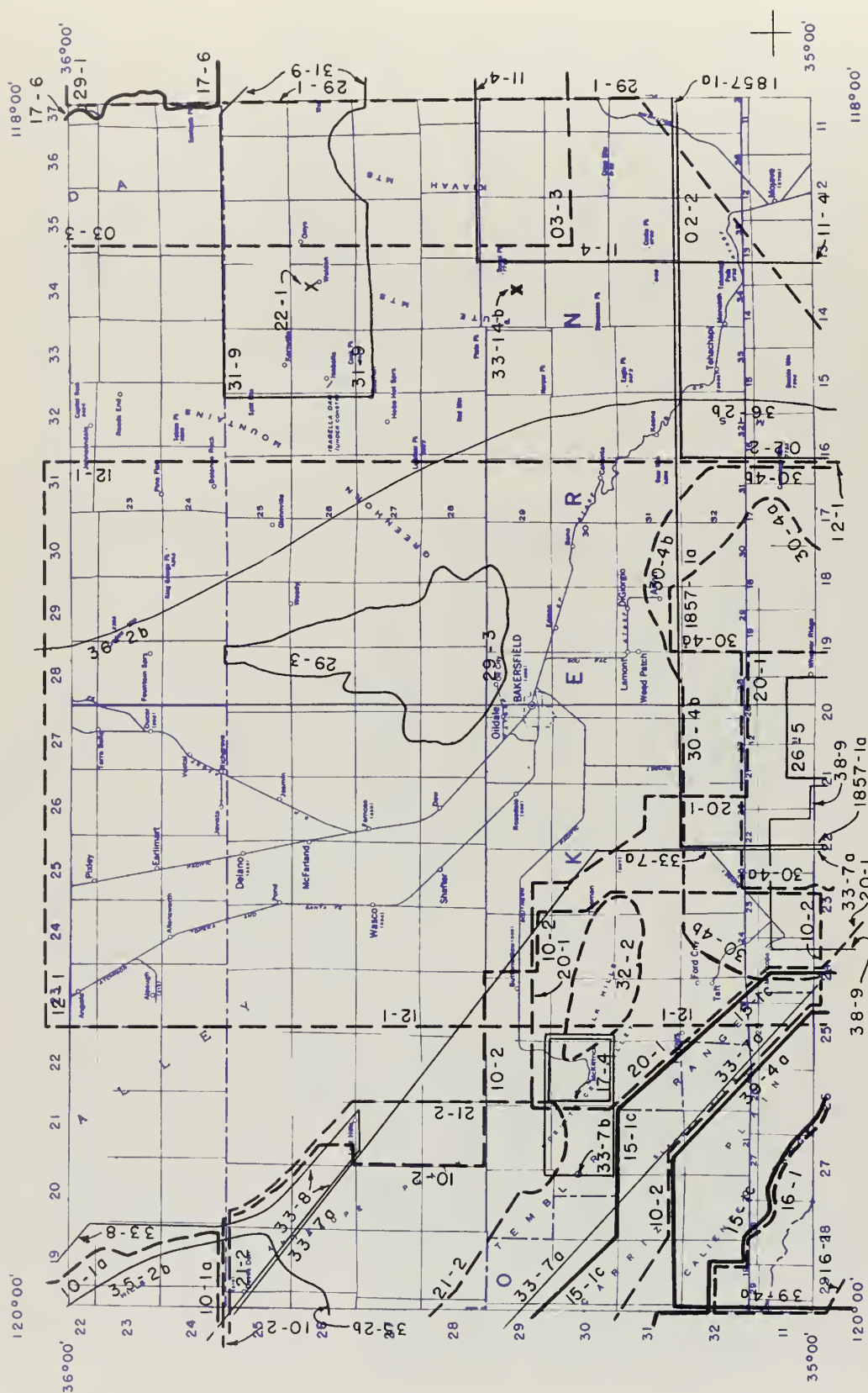


ALTURAS SHEET

MAP OUTLINES SMALL AREAS
DIVISION OF MINES X
U.S.G.S. X
OTHERS X

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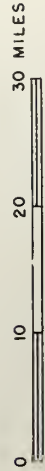
MAP OUTLINES SMALL AREAS

— DIVISION OF MINES X

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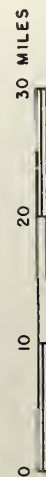
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BAKERSFIELD SHEET
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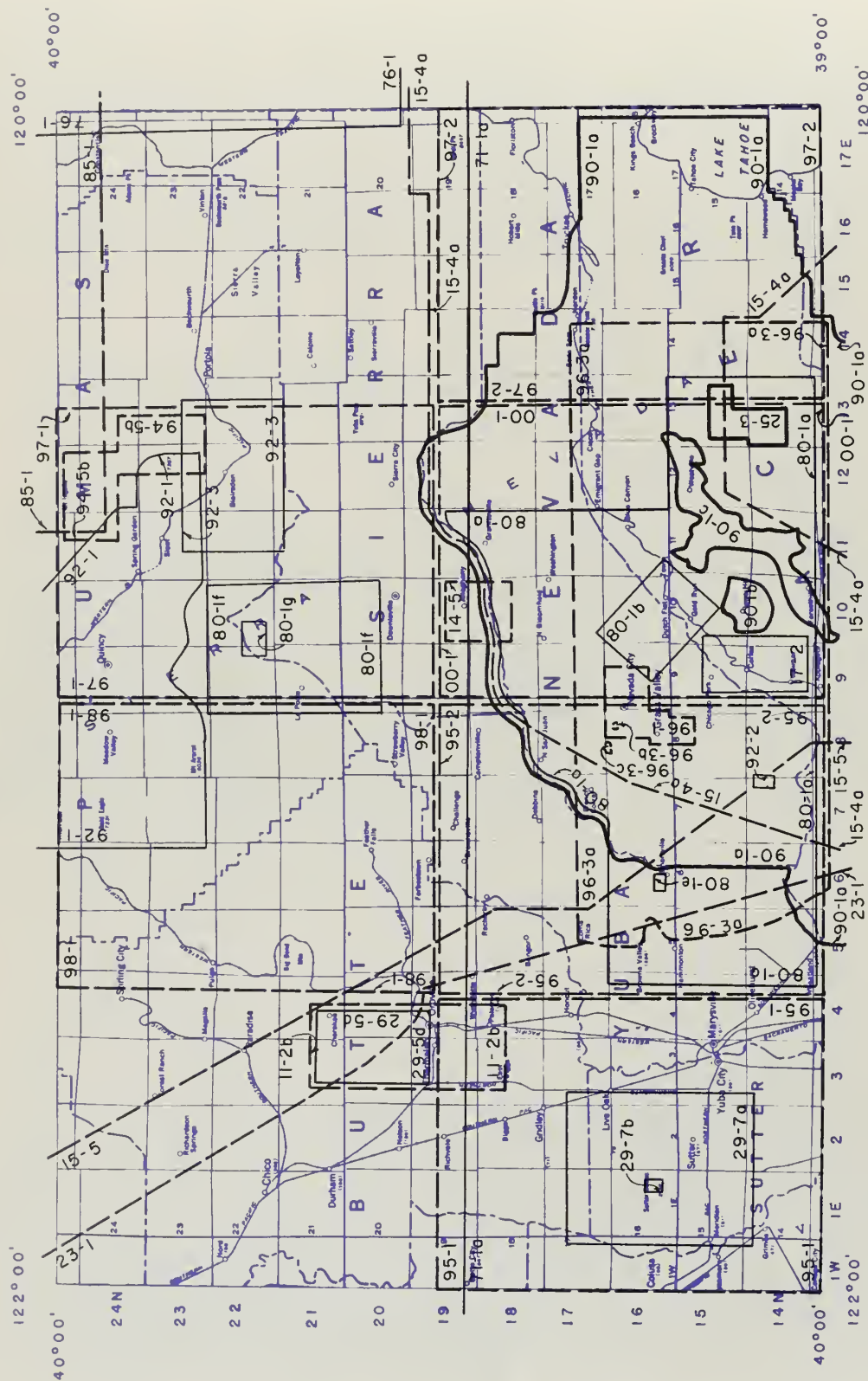


BAKERSFIELD SHEET
INDEX MAP 2 OF 2
PUBLISHED AFTER 1939

MAP OUTLINES	SMALL AREAS
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————	OTHERS X

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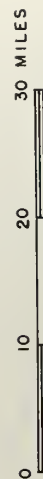
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- *Geologic map covers the entire area of the index map sheet.



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—	DIVISION OF MINES	X
- - -	U. S. G. S.	X
—	OTHERS	X

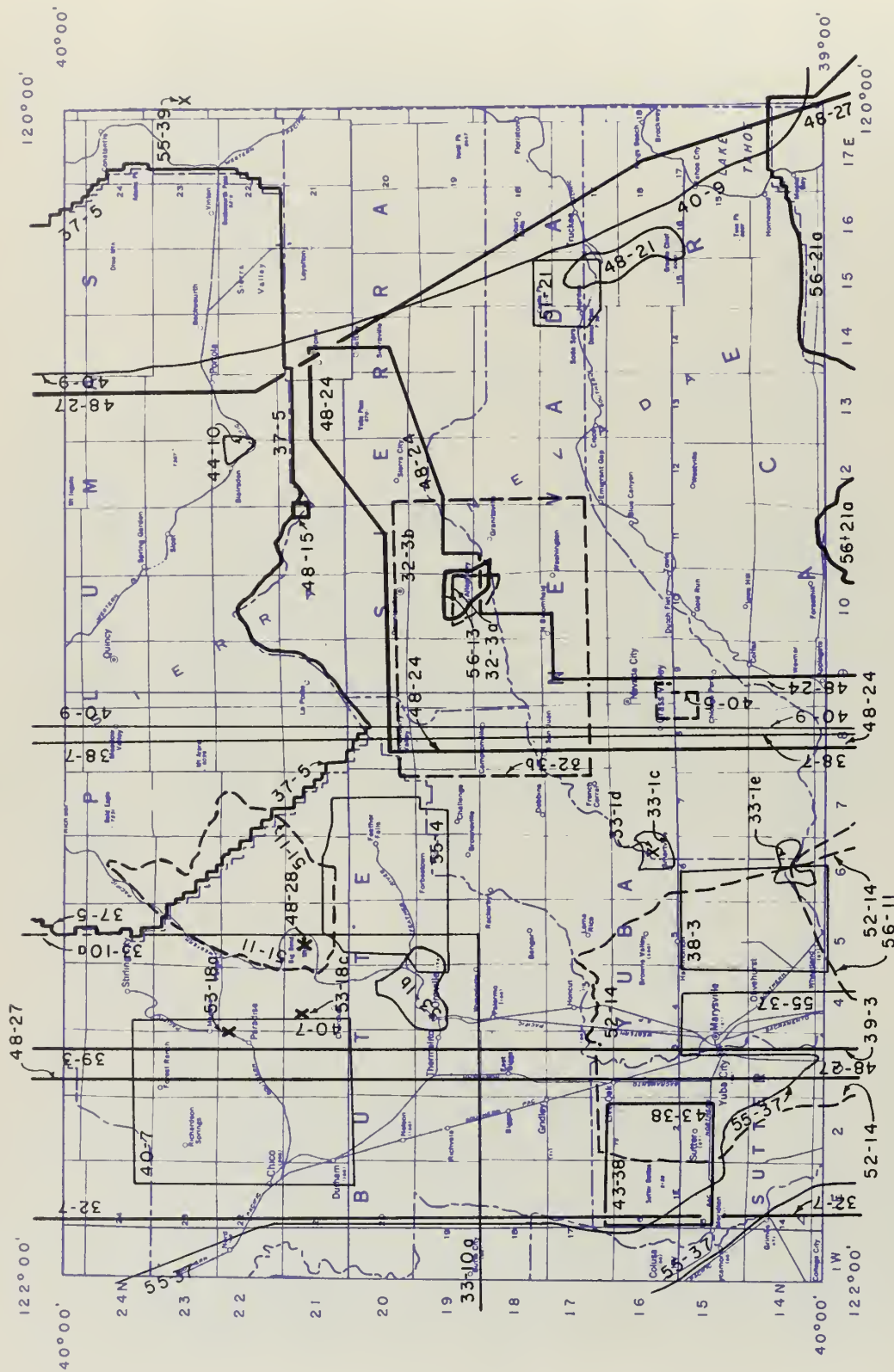
CHICO SHEET
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*Geologic map covers the entire area of the index map sheet.



MAP OUTLINES SMALL AREAS

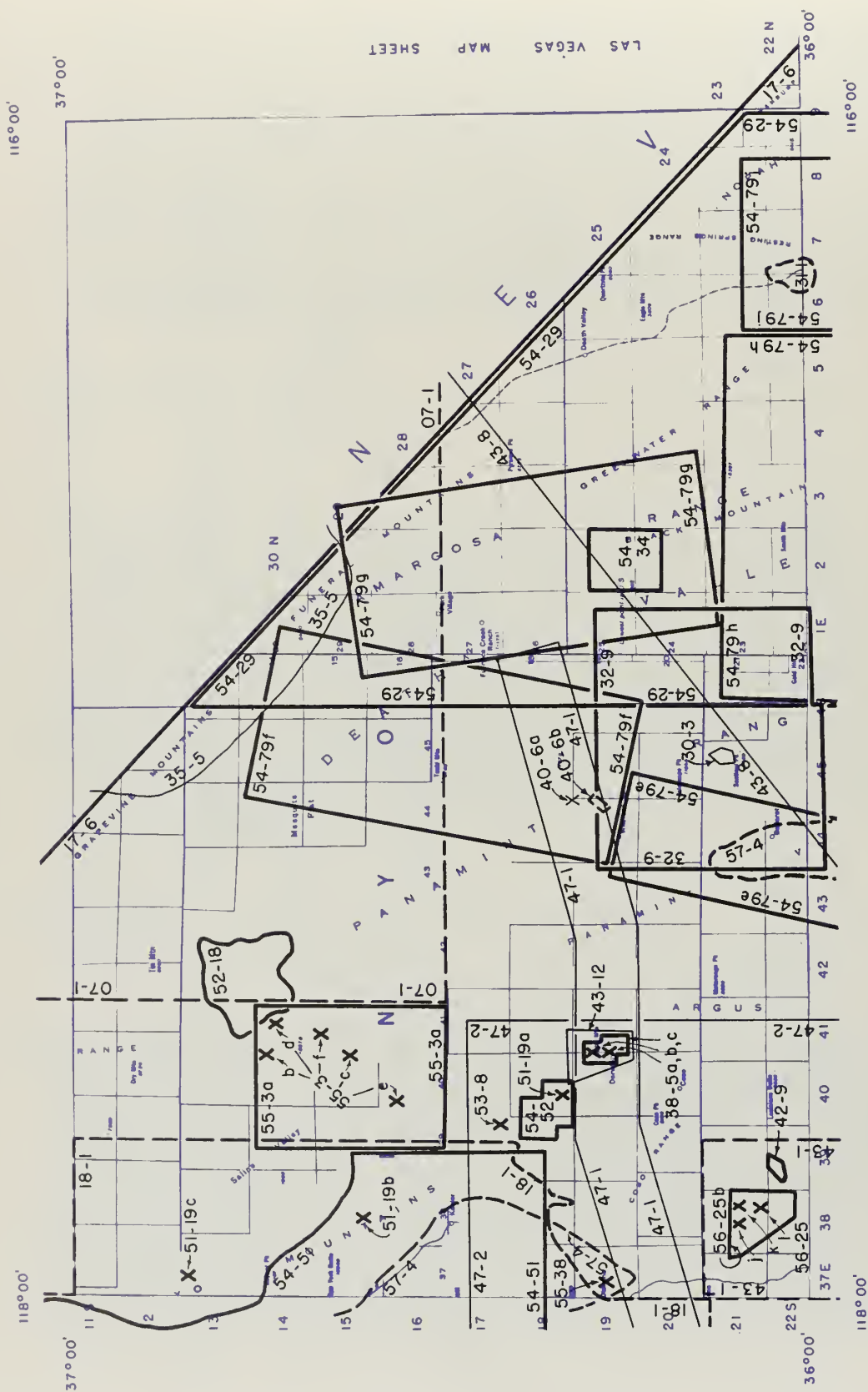
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 - - - U. S. G. S. X
 — OTHERS X

CHICO SHEET
 INDEX MAP 2 OF 2
 PUBLISHED AFTER 1931

0 10 20 30 MILES

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MAP OUTLINES

SMALL AREAS

DIVISION OF MINES

U. S. G. S.

OTHERS

DEATH VALLEY AND
LAS VEGAS SHEET

0 10 20 30 MILES

BIBLIOGRAPHY

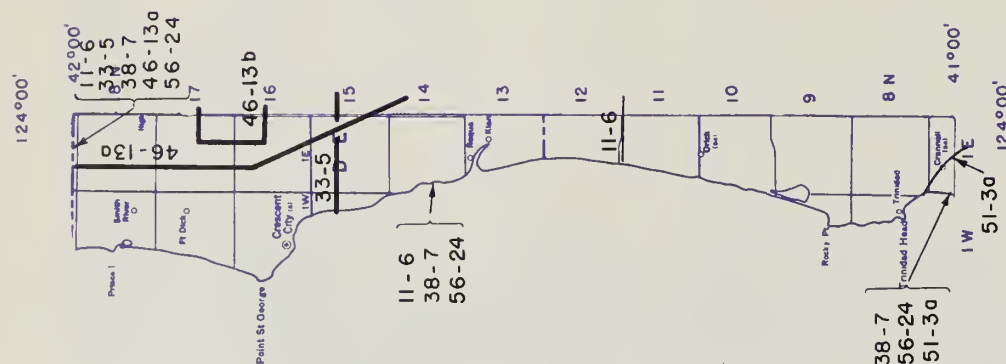
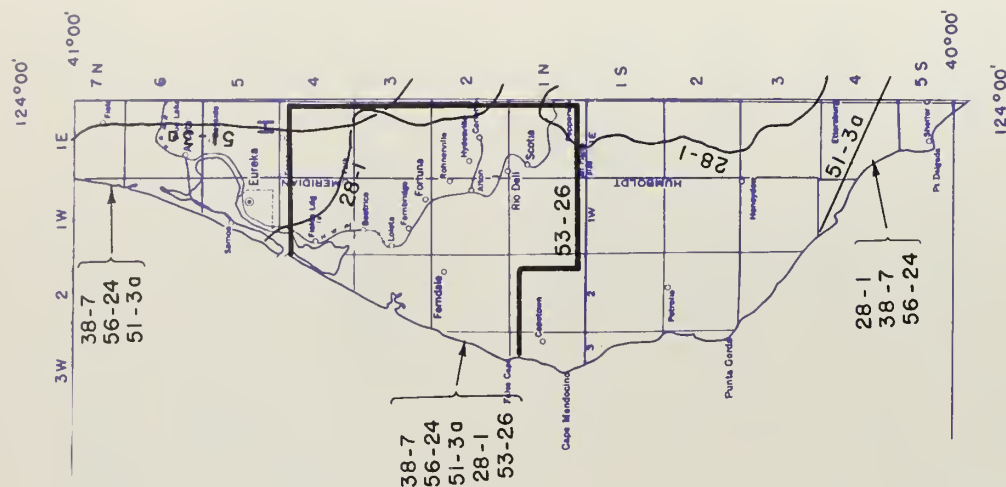
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* Geologic map covers the entire area of the index map sheet.



MAP OUTLINES

SMALL AREAS

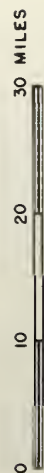
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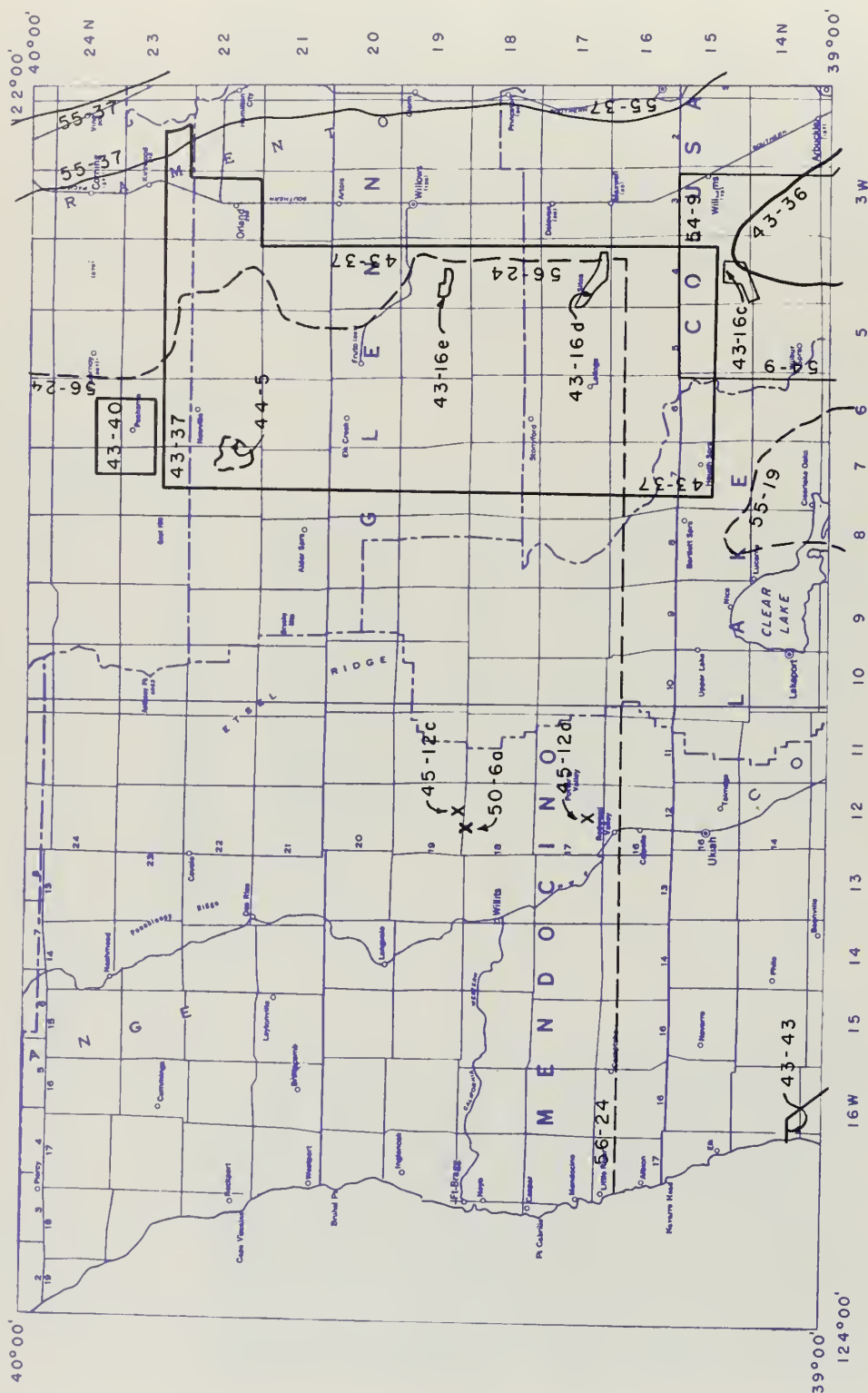
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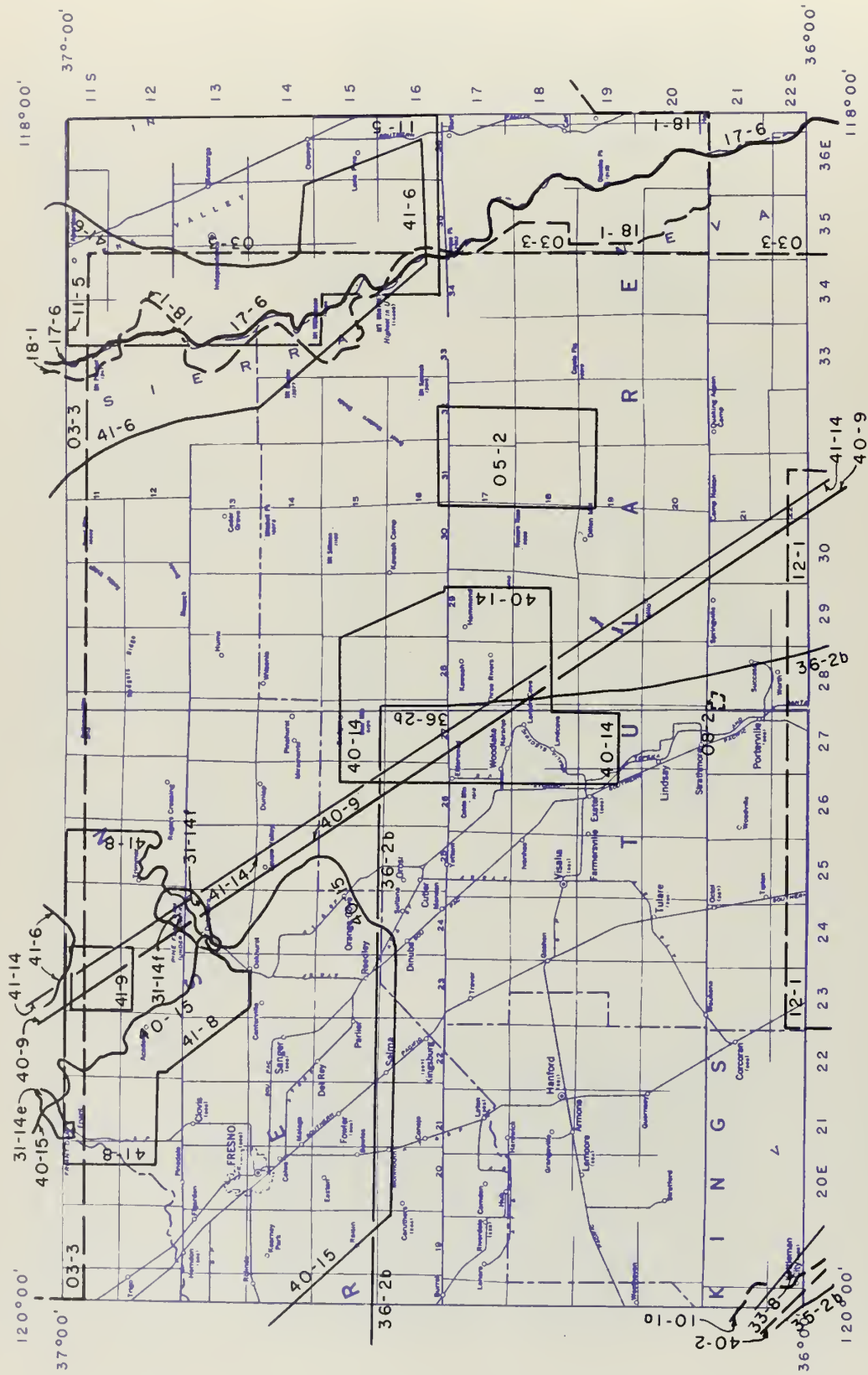
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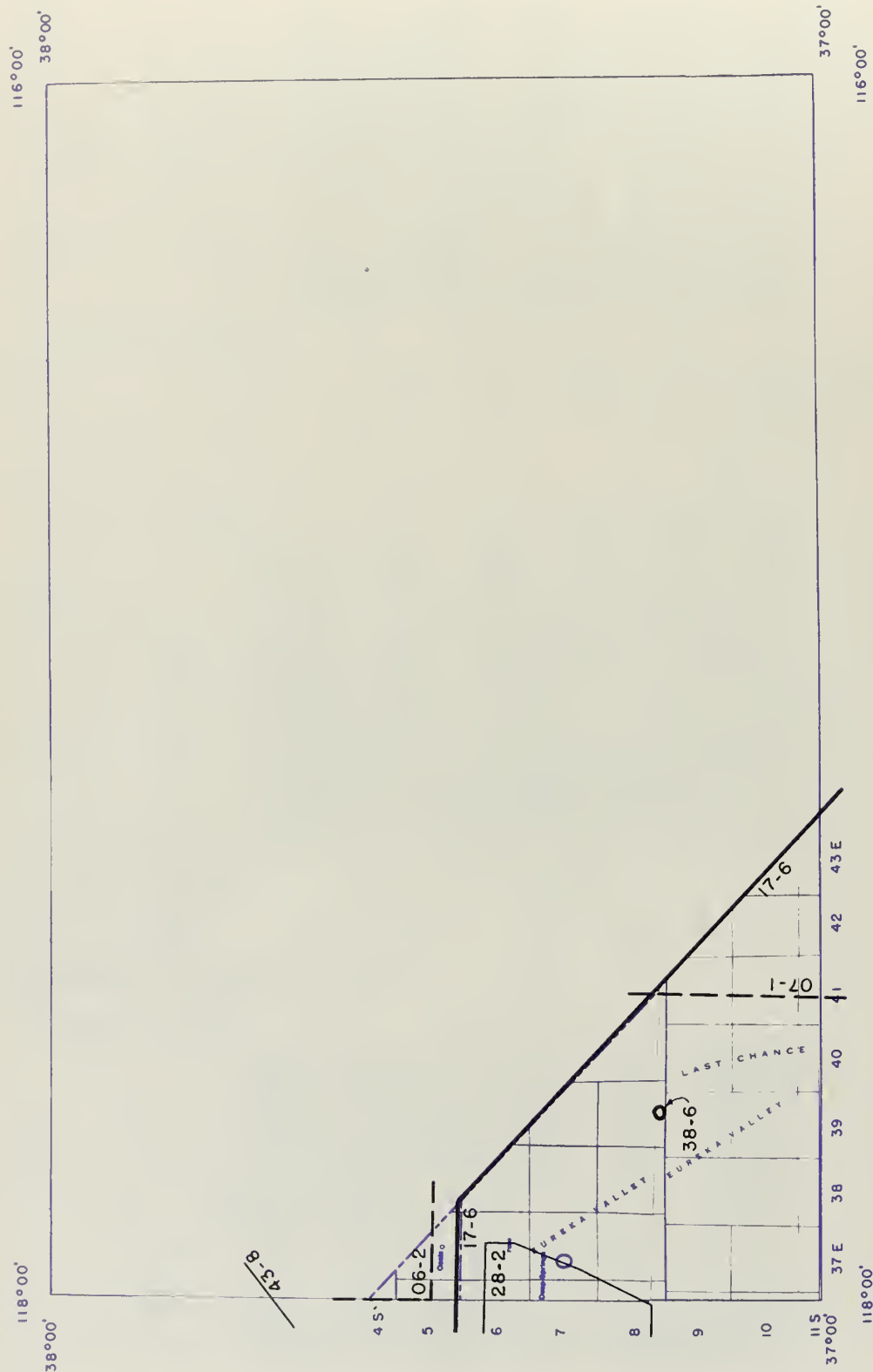


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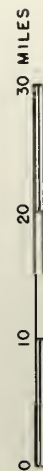
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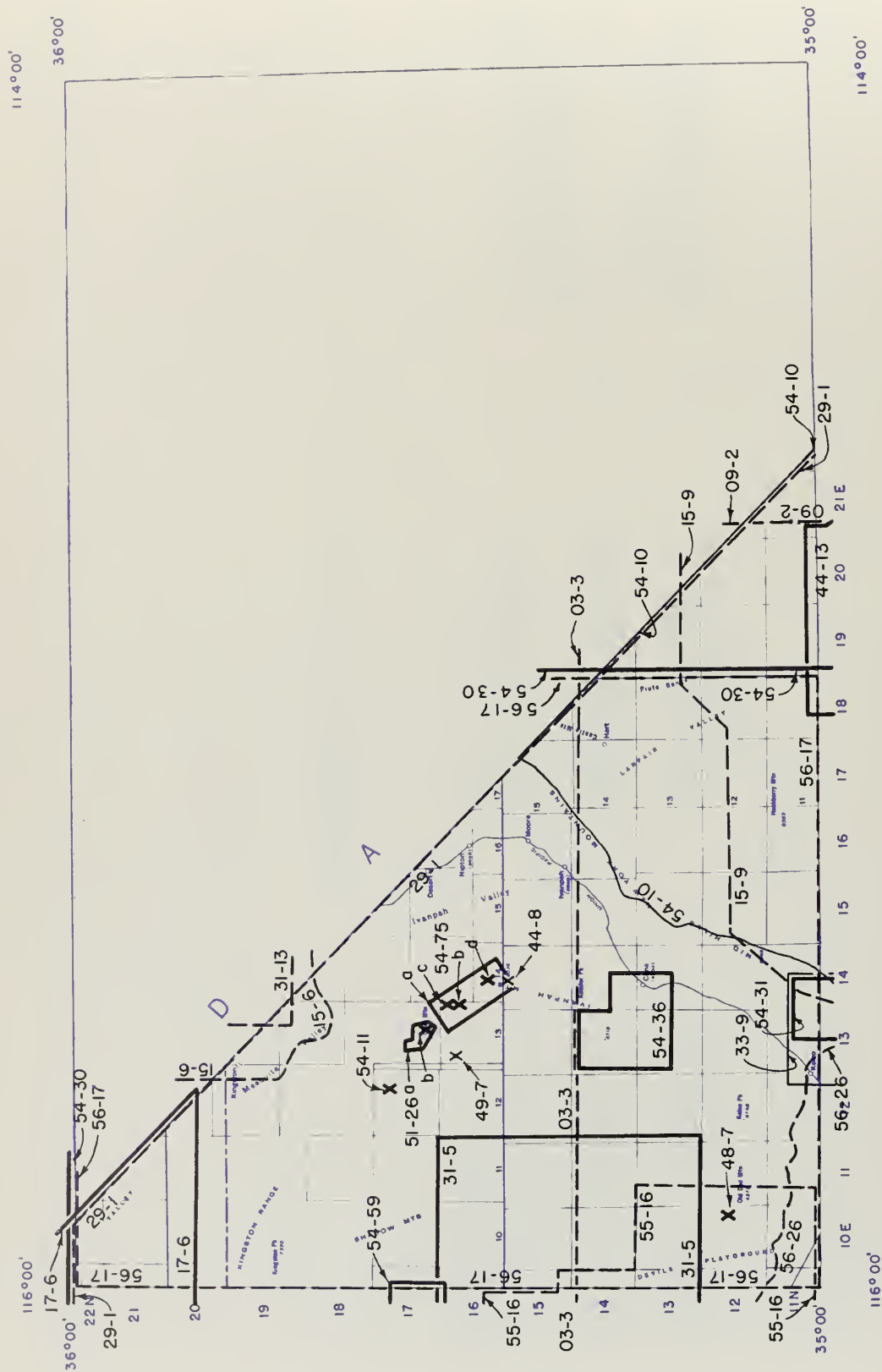
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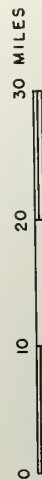


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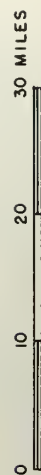


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* Geologic map covers the entire area of the index map sheet.



LONG BEACH SHEET
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MAP OUTLINES	SMALL AREAS
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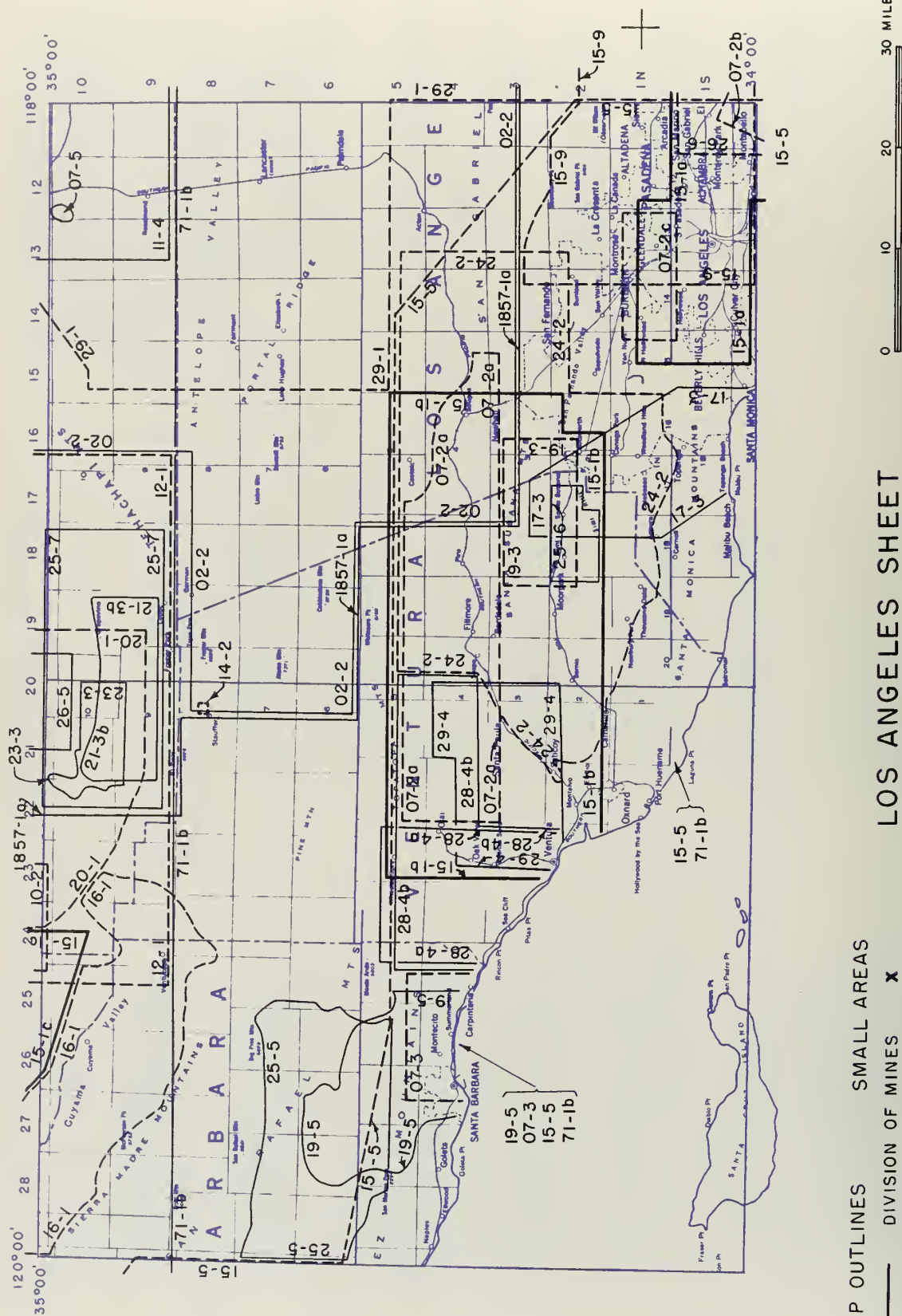
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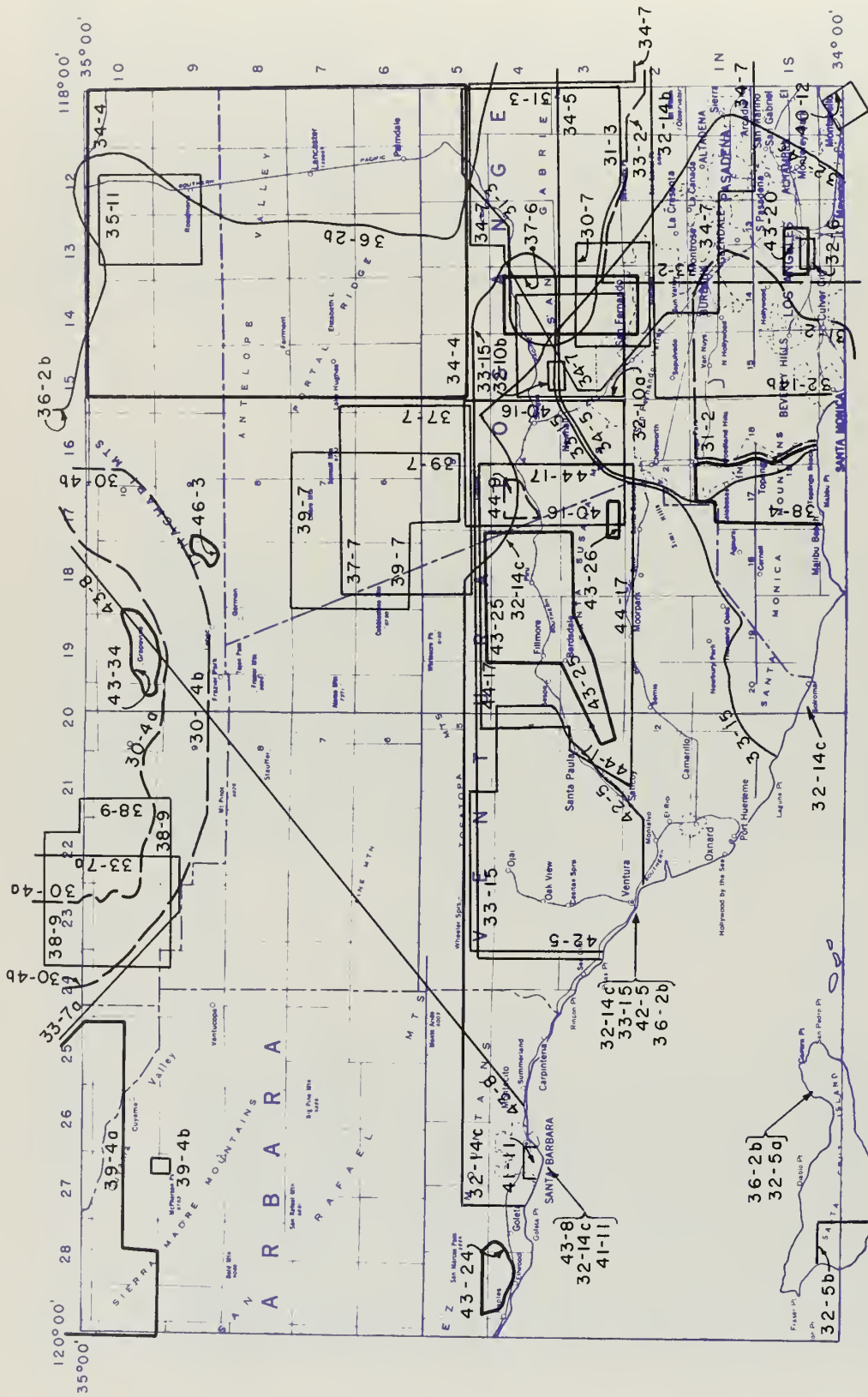
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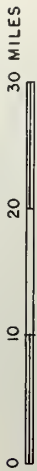
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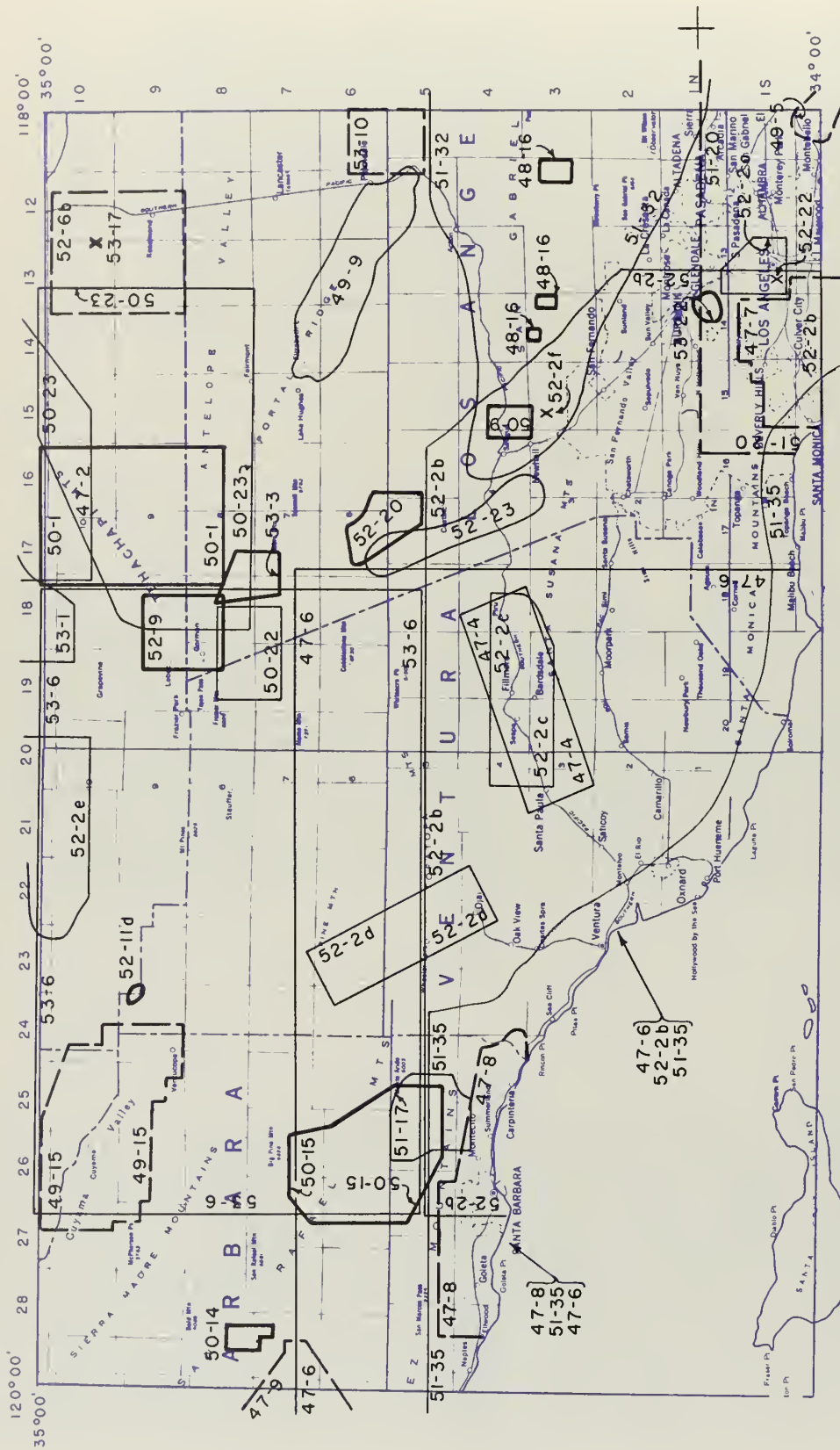
LOS ANGELES SHEET

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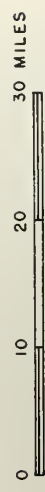


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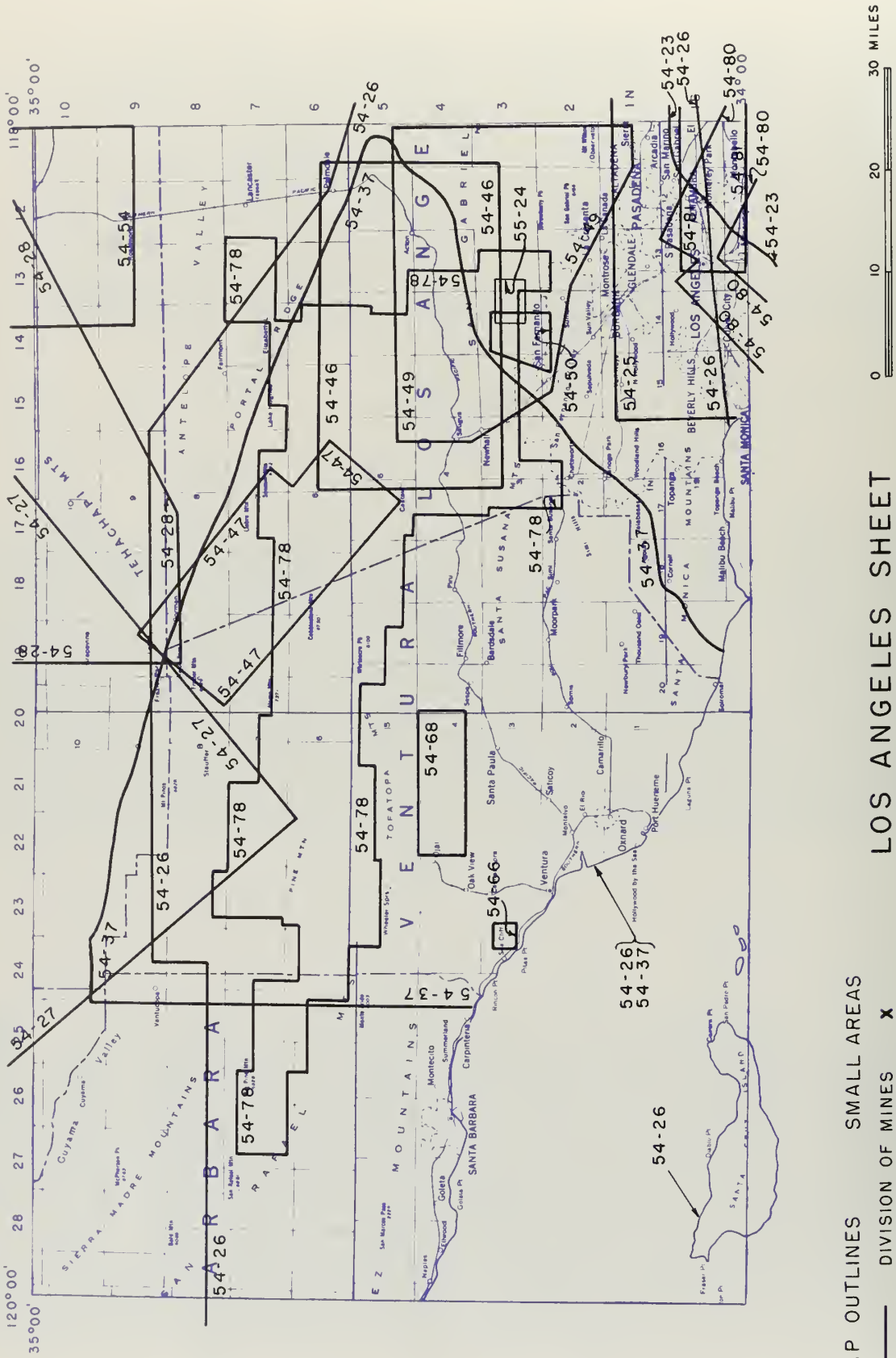
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MAP OUTLINES SMALL AREAS

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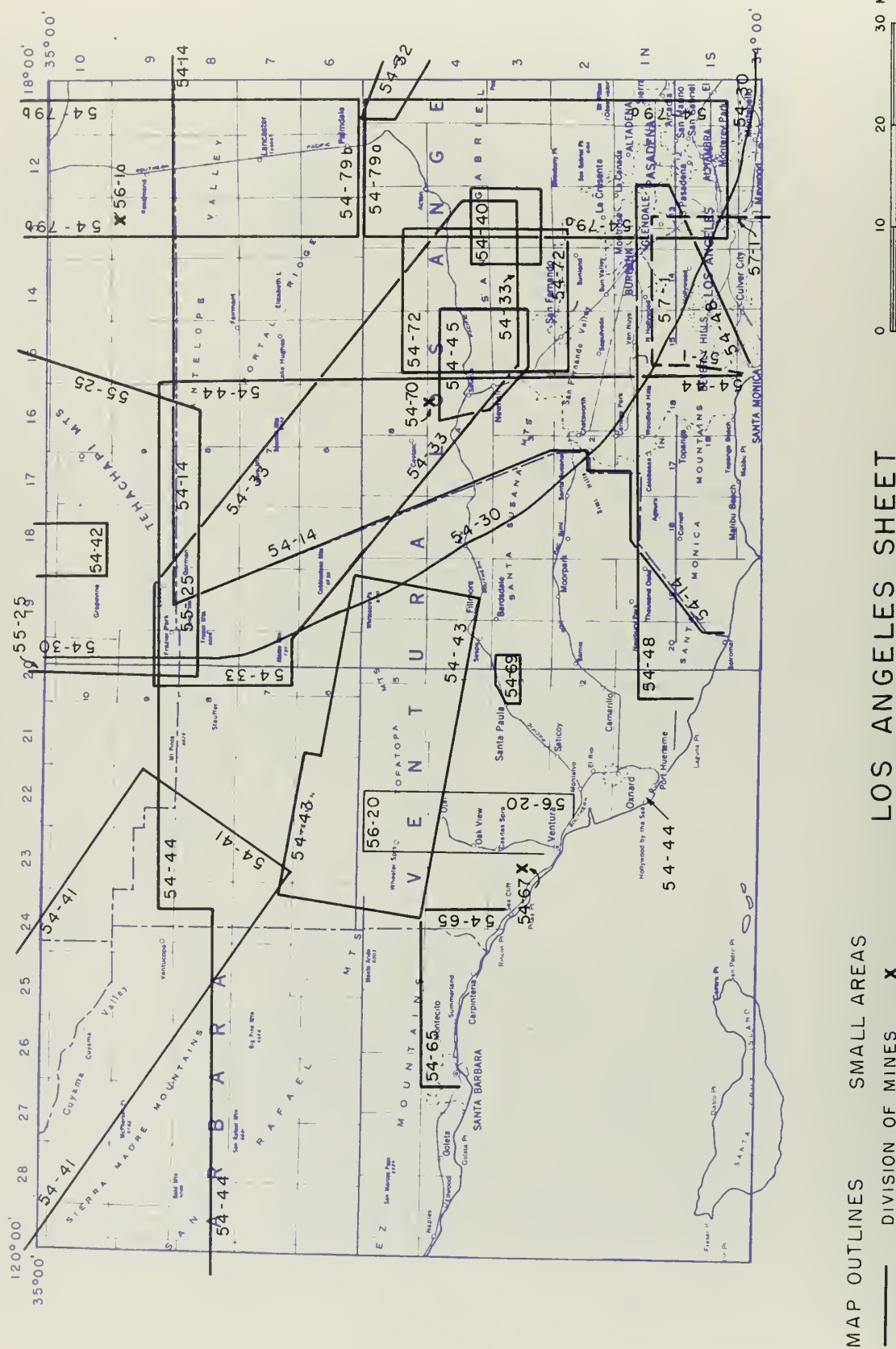
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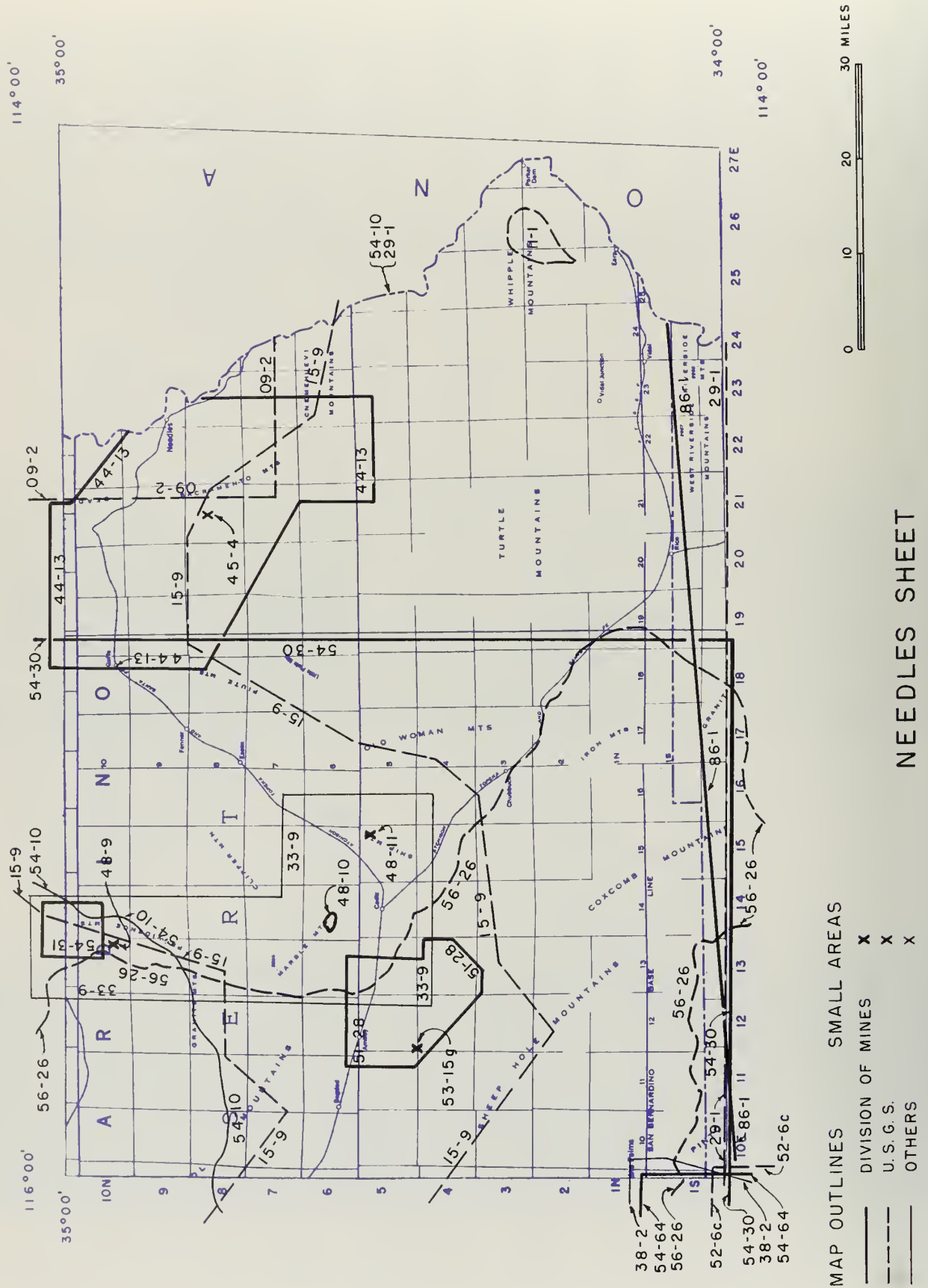
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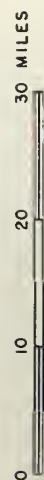
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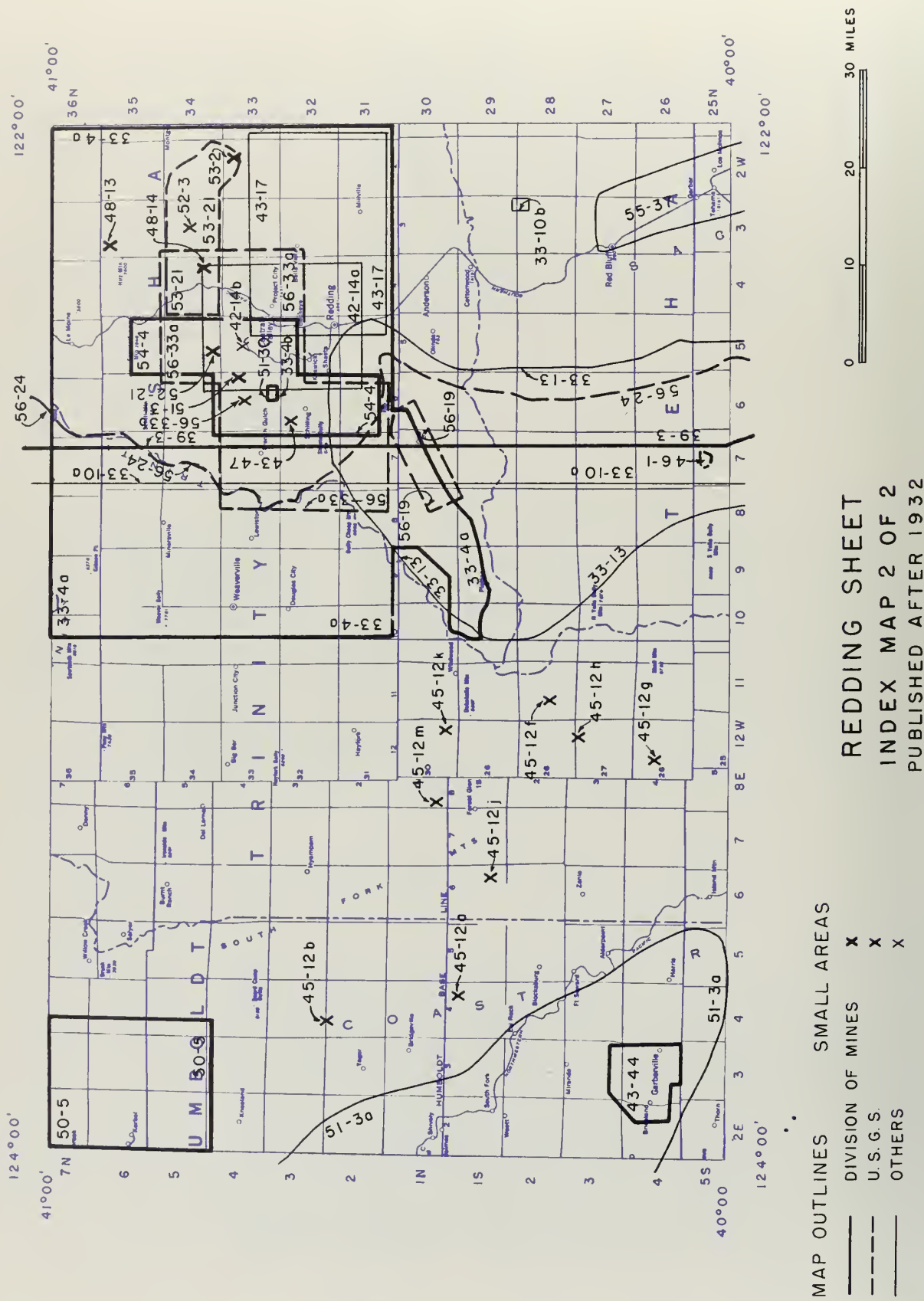


MAP OUTLINES	DIVISION OF MINES	SMALL AREAS
————		X
-----	U. S. G. S.	X
————	OTHERS	X

REDDING SHEET
INDEX MAP 1 OF 2
PUBLISHED BEFORE 1933

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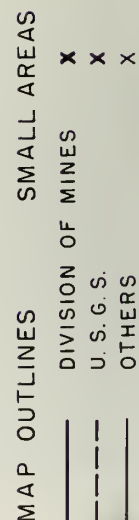
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*Geologic map covers the entire area of the index map sheet.

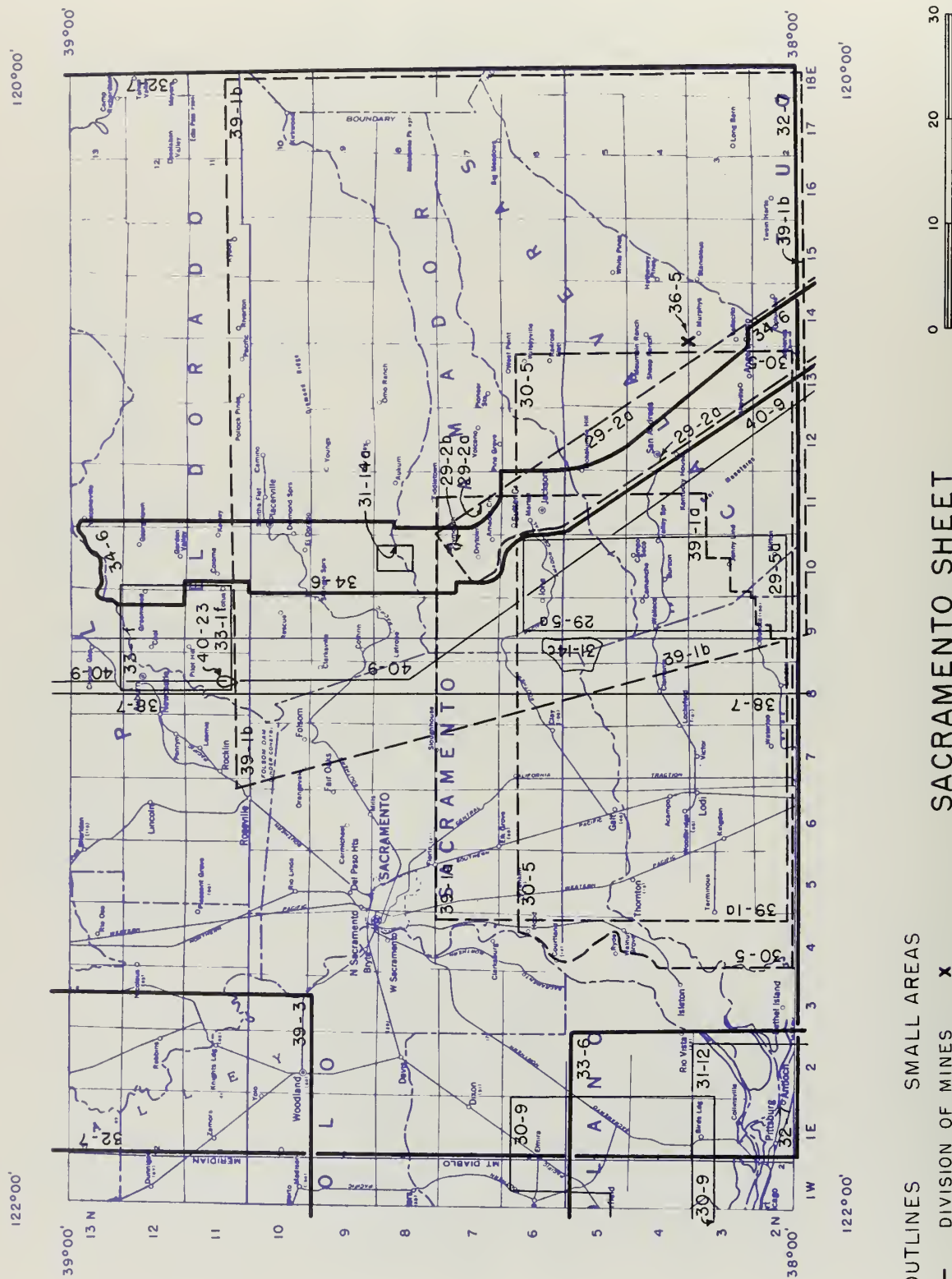


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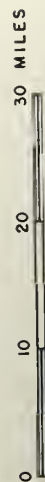
*Geologic map covers the entire area of the index map sheet.



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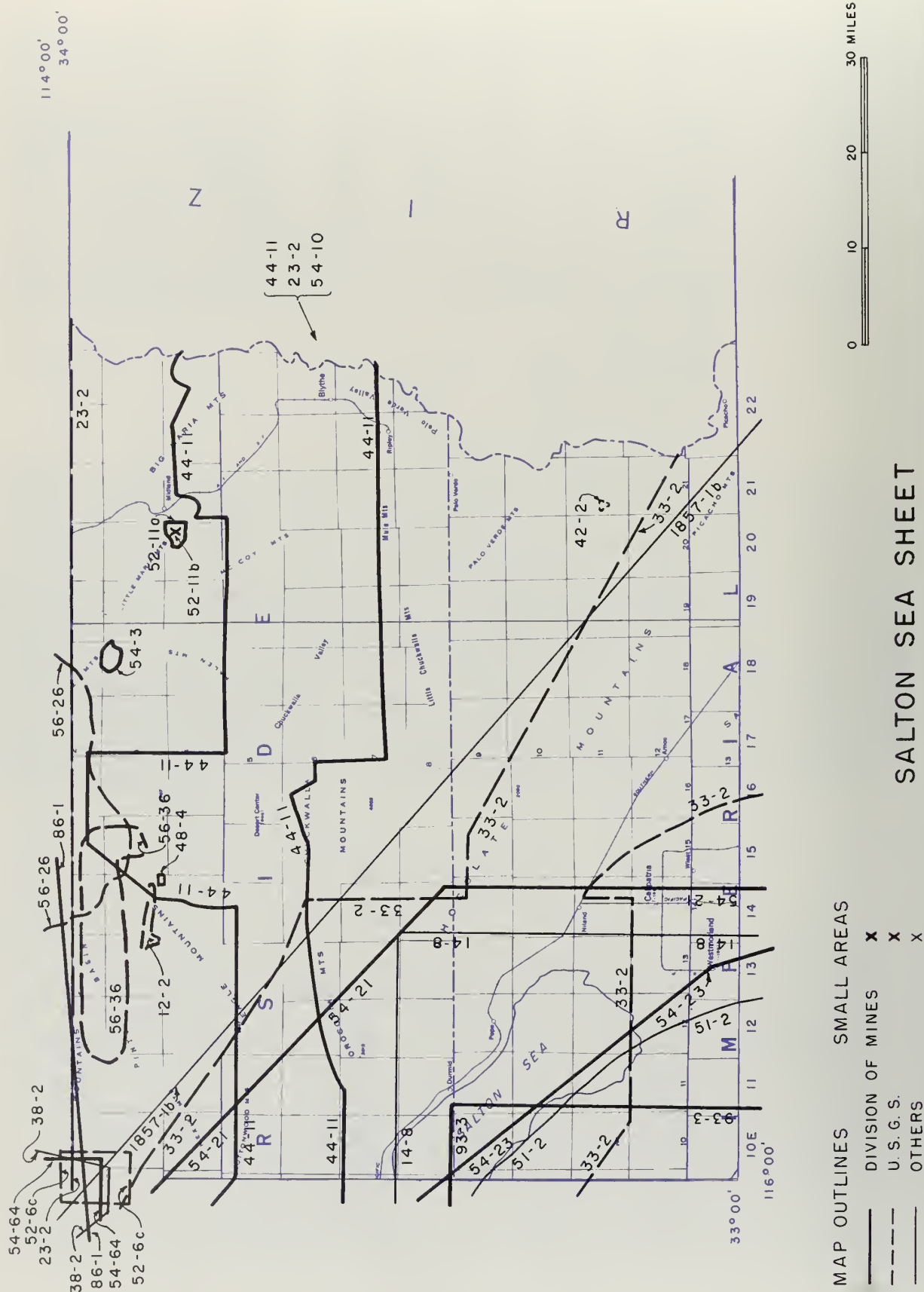


MAP OUTLINES	SMALL AREAS
————	DIVISION OF MINES X
-----	U.S.G.S. X
————	OTHERS X

SACRAMENTO SHEET
INDEX MAP 3 OF 3
PUBLISHED AFTER 1940

BIBLIOGRAPHY

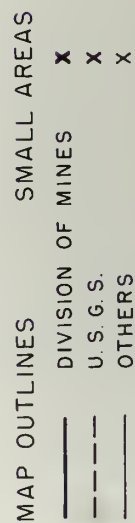
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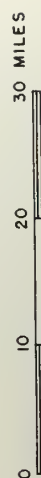
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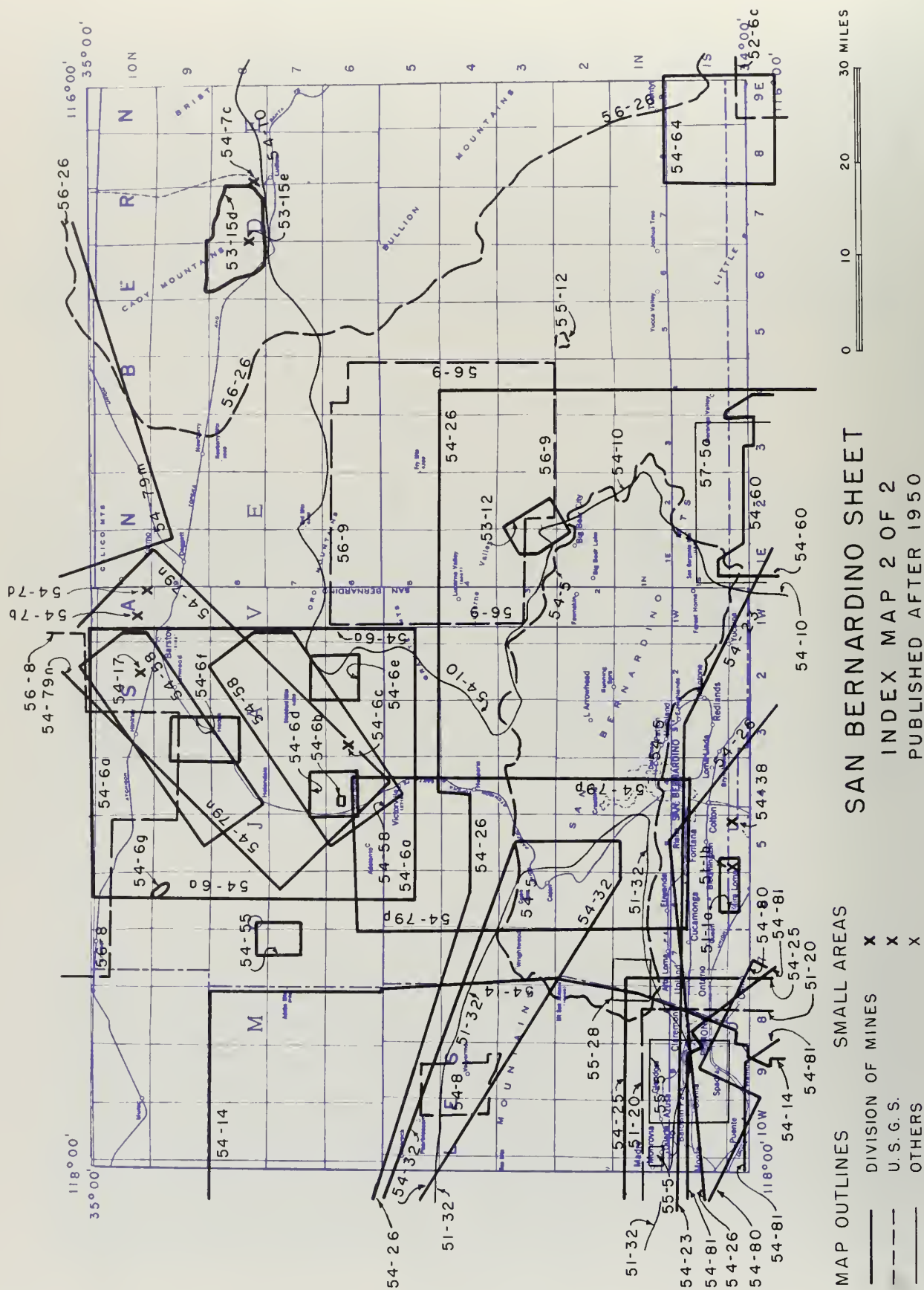


SAN BERNARDINO SHEET
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PUBLISHED BEFORE 1951



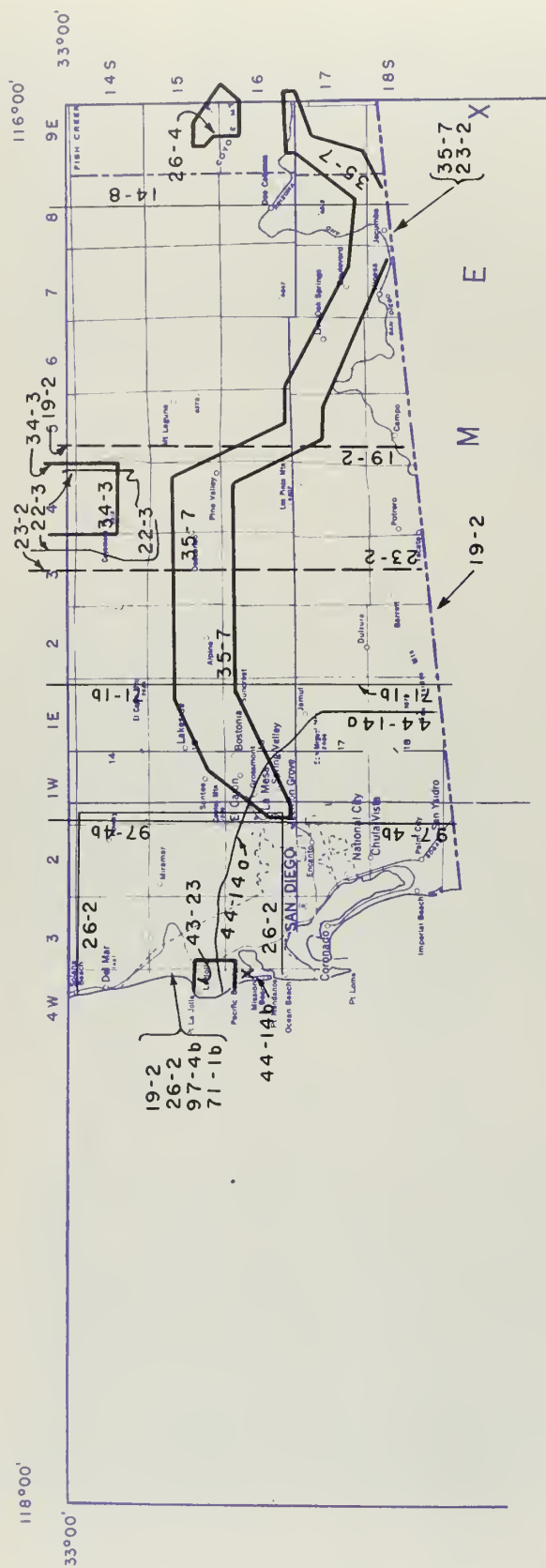
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*Geologic map covers the entire area of the index map sheet.



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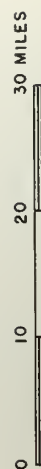
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MAP OUTLINES
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SMALL AREAS
 DIVISION OF MINES X
 U. S. G. S. X
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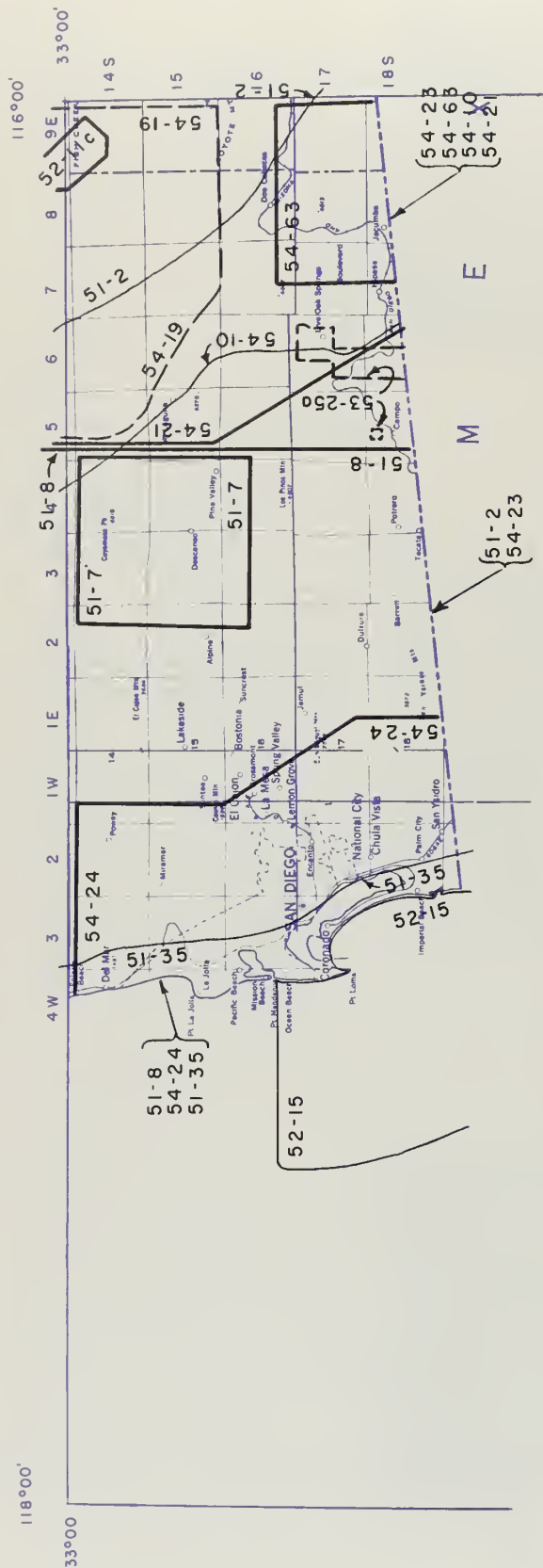
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MAP OUTLINES SMALL AREAS

—	DIVISION OF MINES	X
- - -	U. S. G. S.	X
—	OTHERS	X

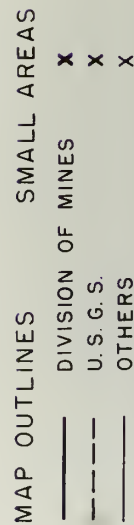
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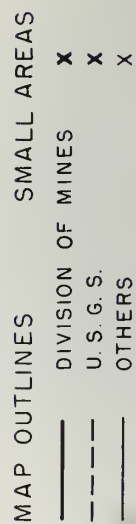
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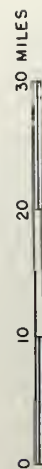
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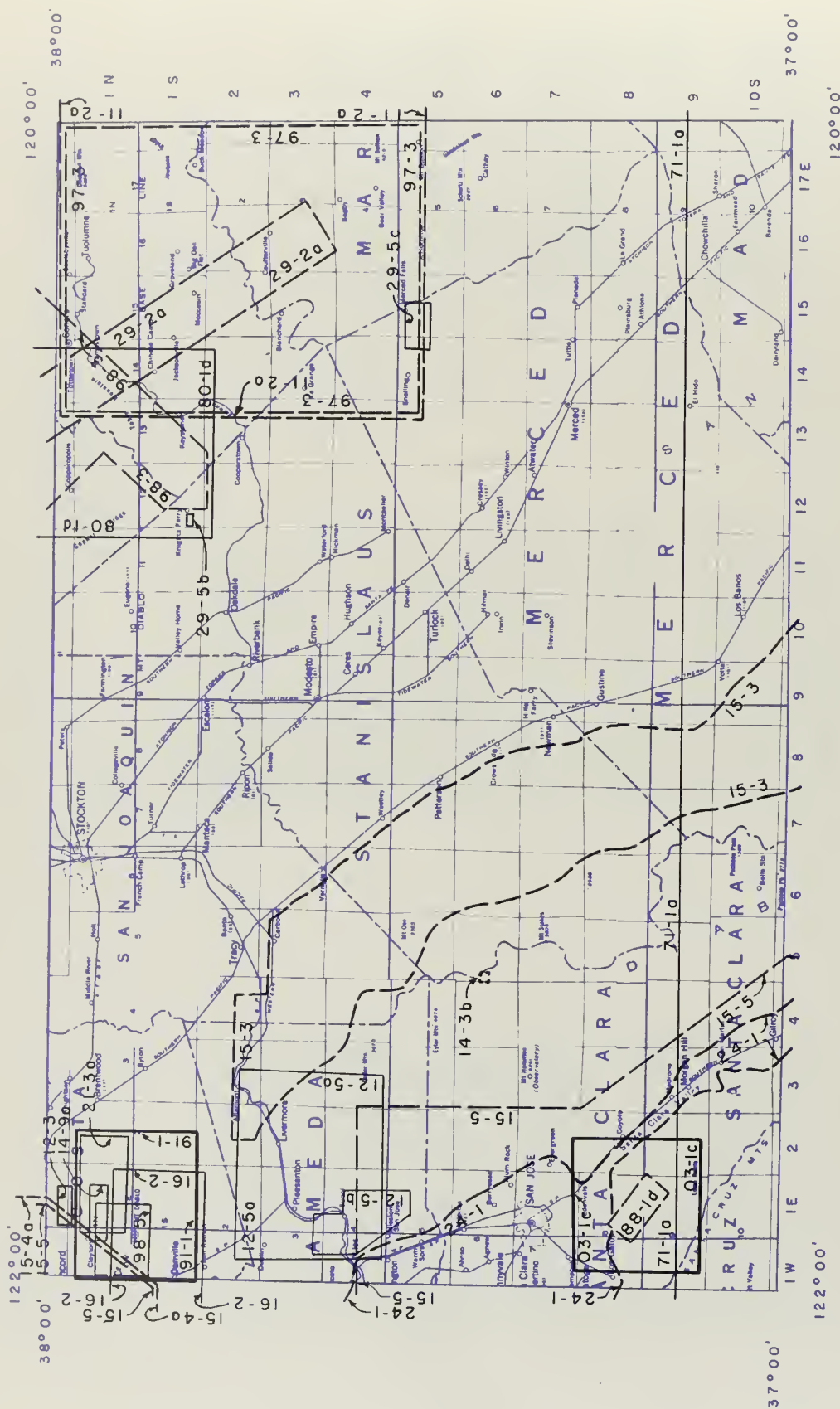


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U.S.G.S. X

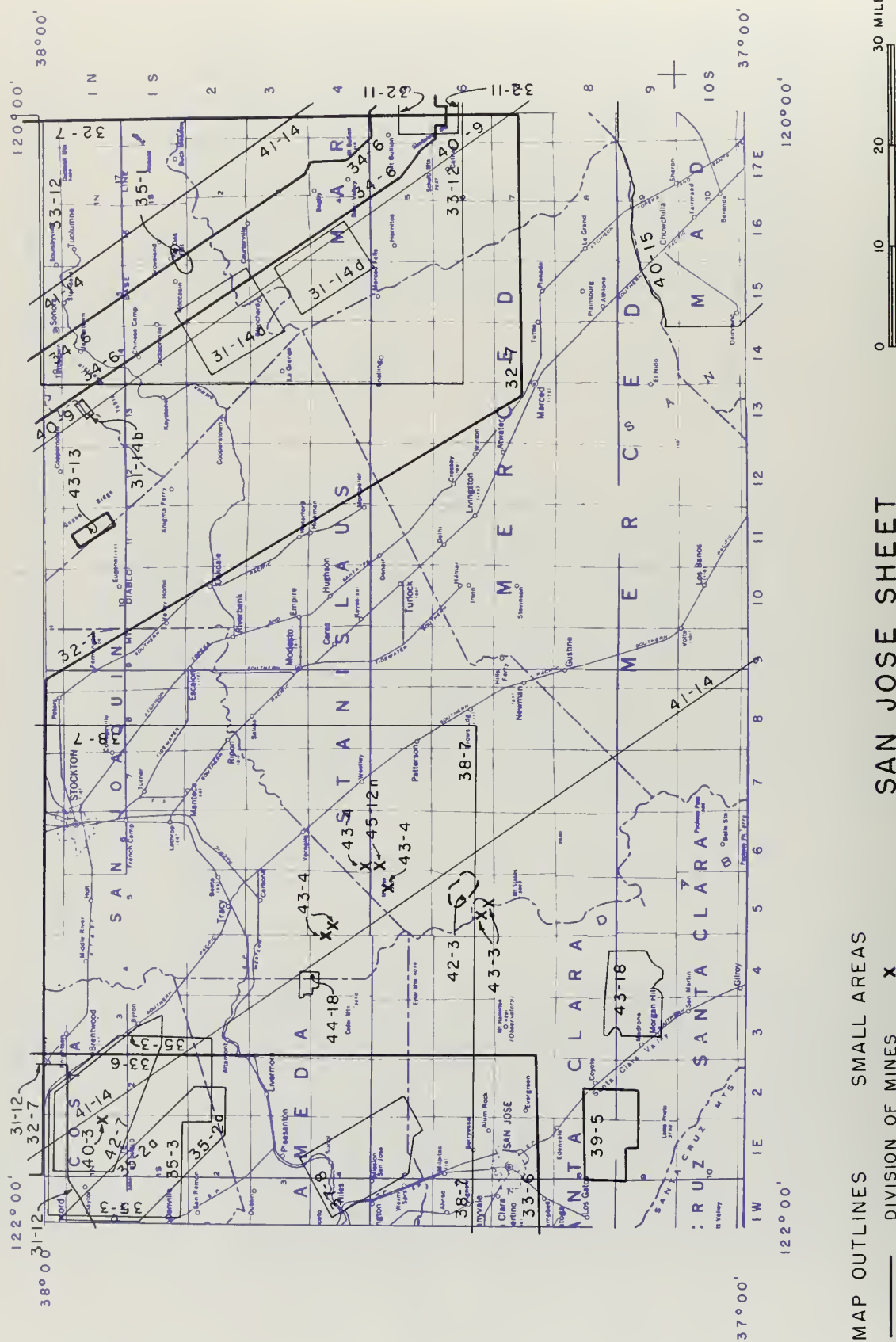
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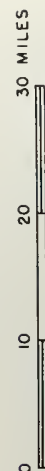
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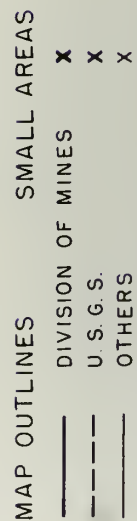


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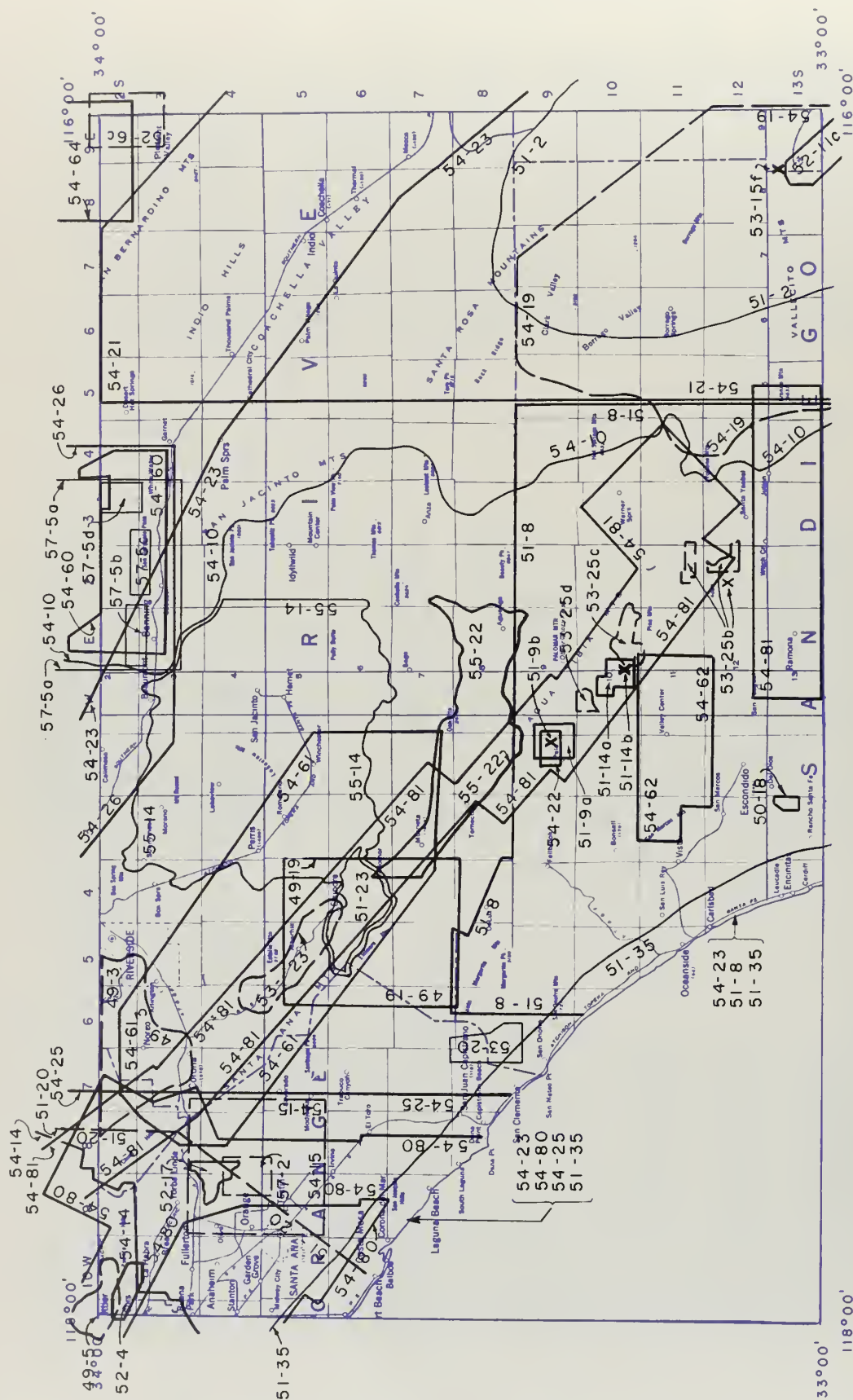
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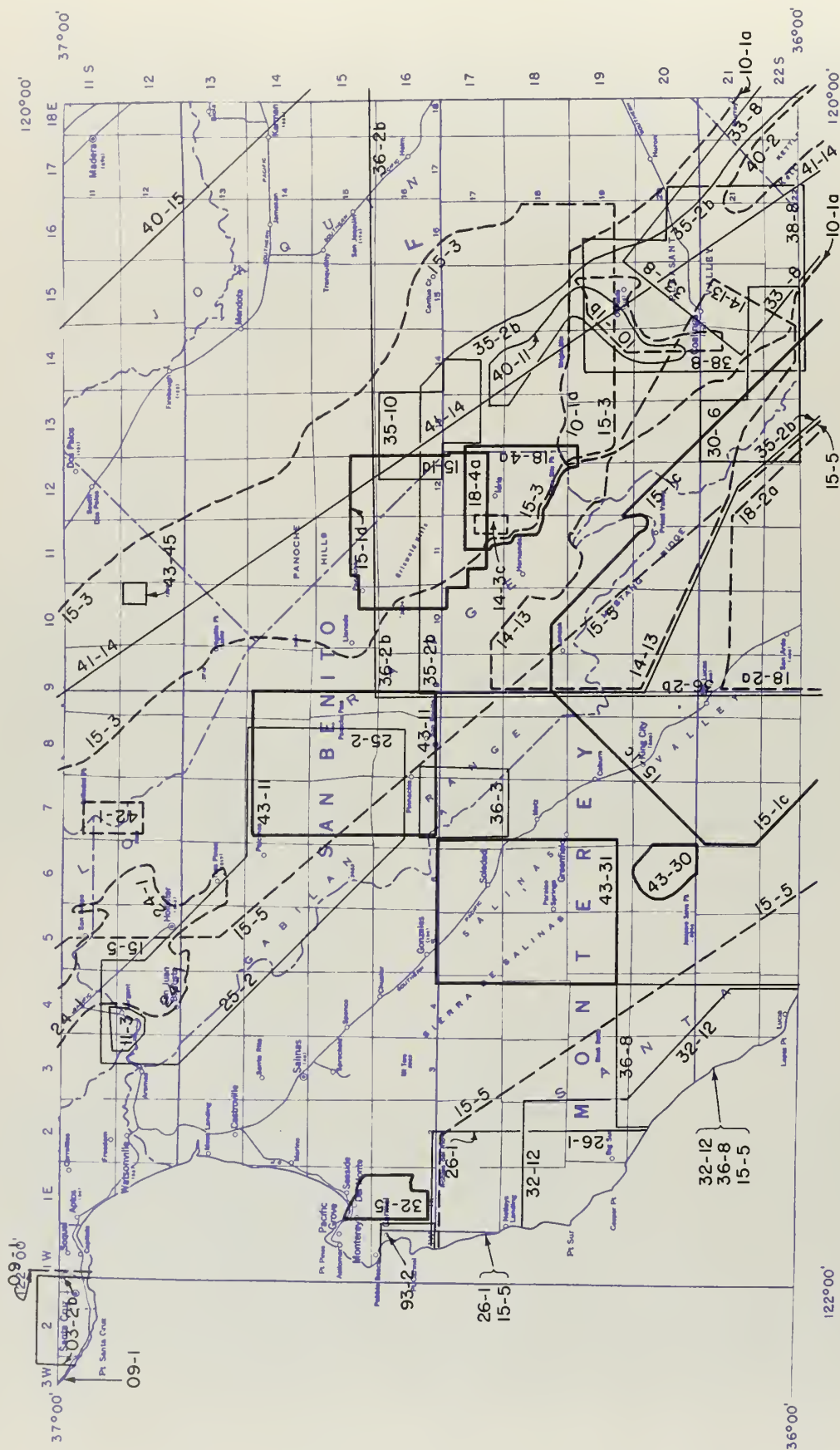
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OTHERS

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*Geologic map covers the entire area of the index map sheet.



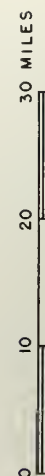
MAP OUTLINES

DIVISION OF MINES

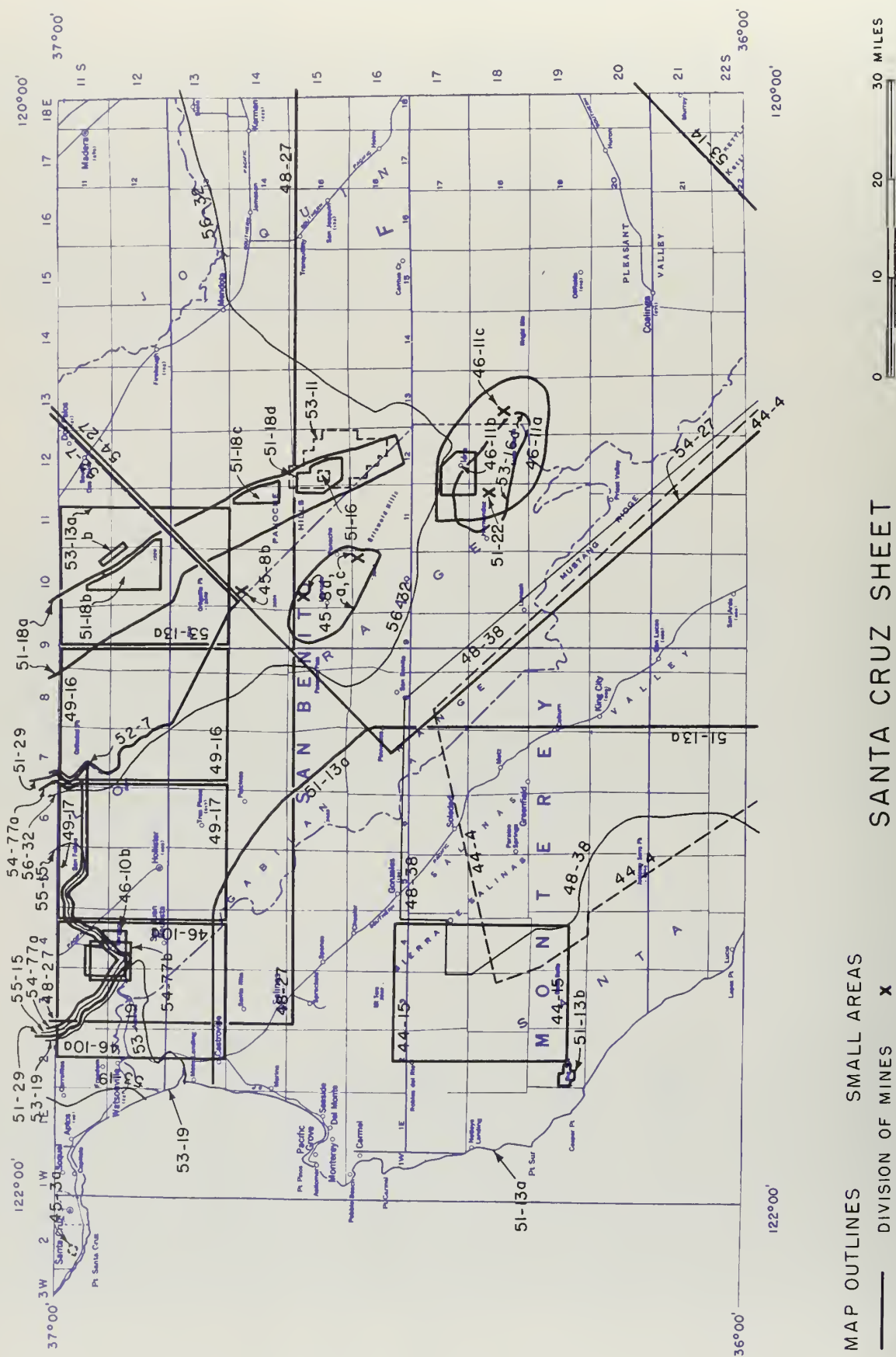
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OTHERS

SANTA CRUZ SHEET
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PUBLISHED BEFORE 1944

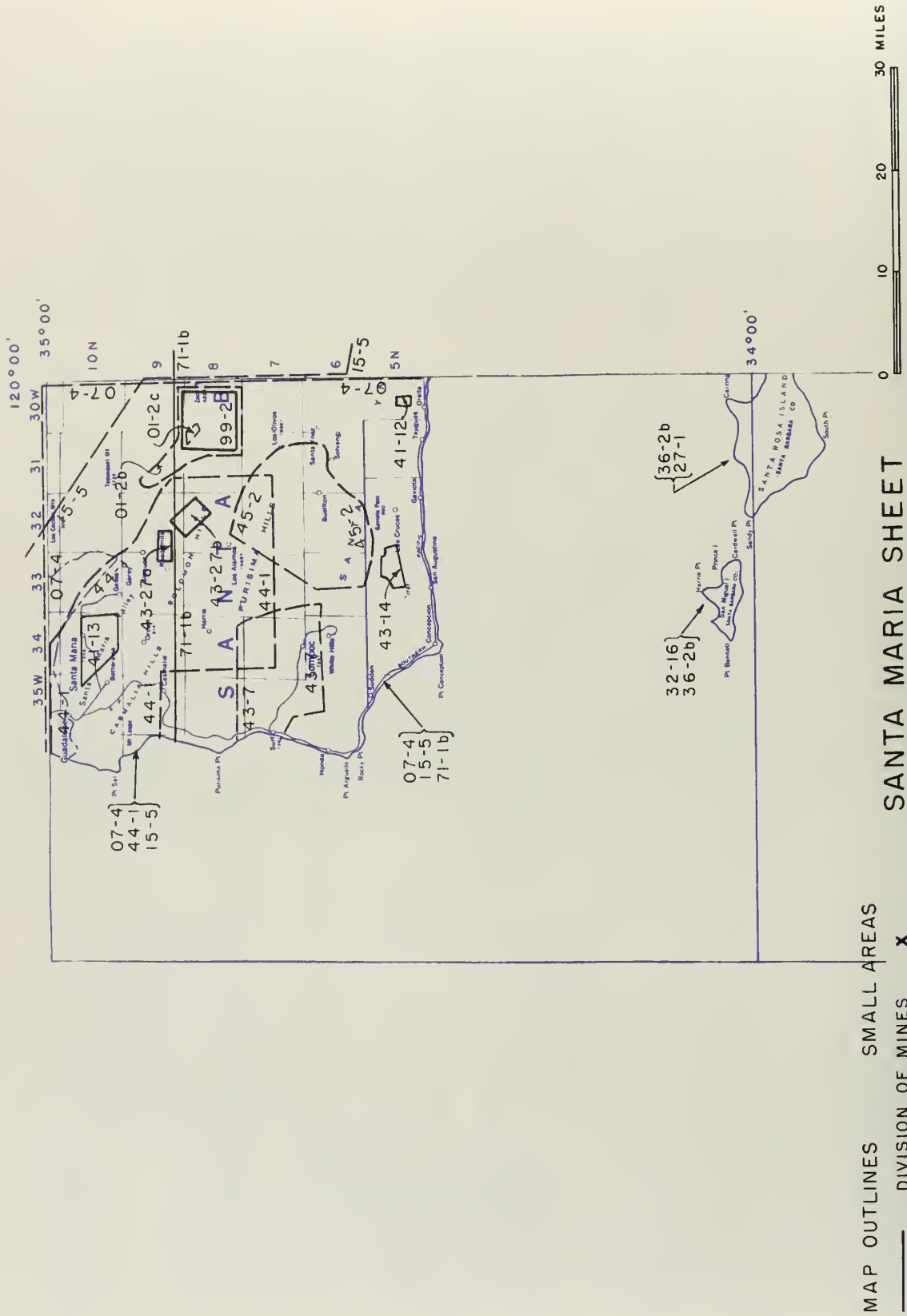


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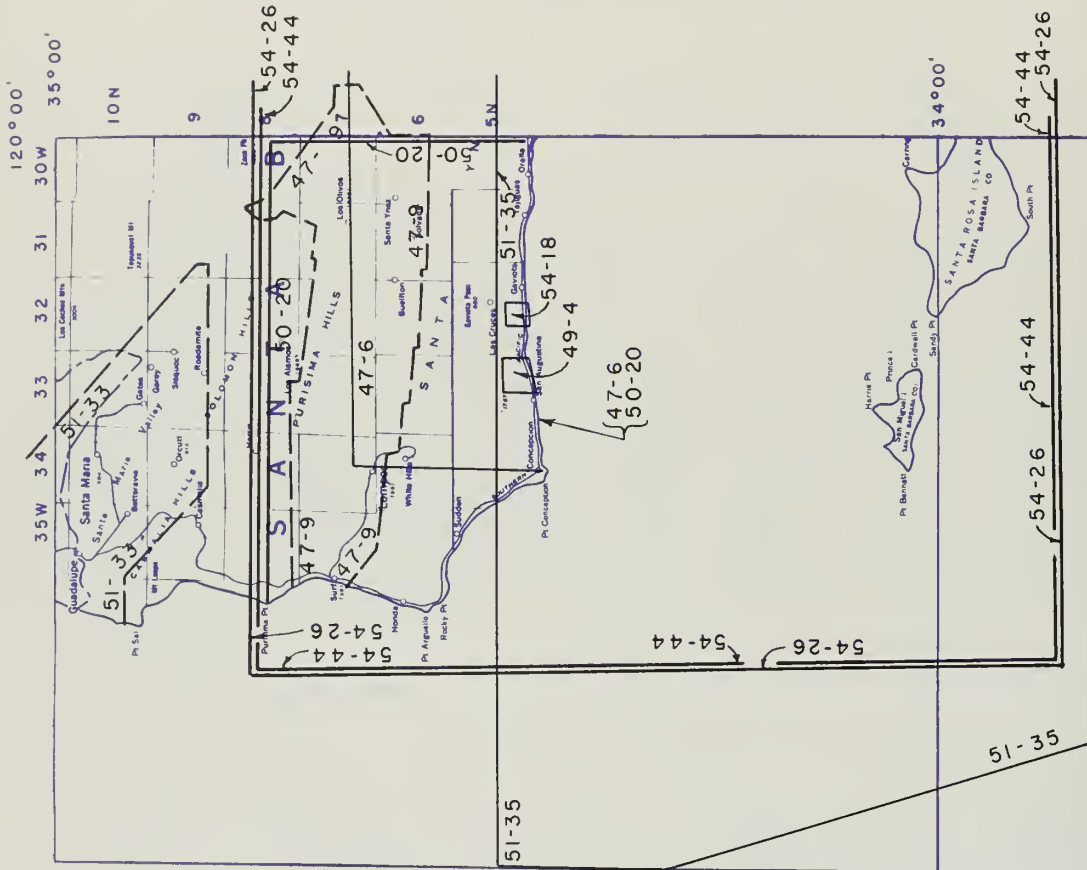
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*Geologic map covers the entire area of the index map sheet.



MAP OUTLINES

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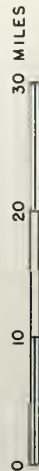
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SANTA MARIA SHEET

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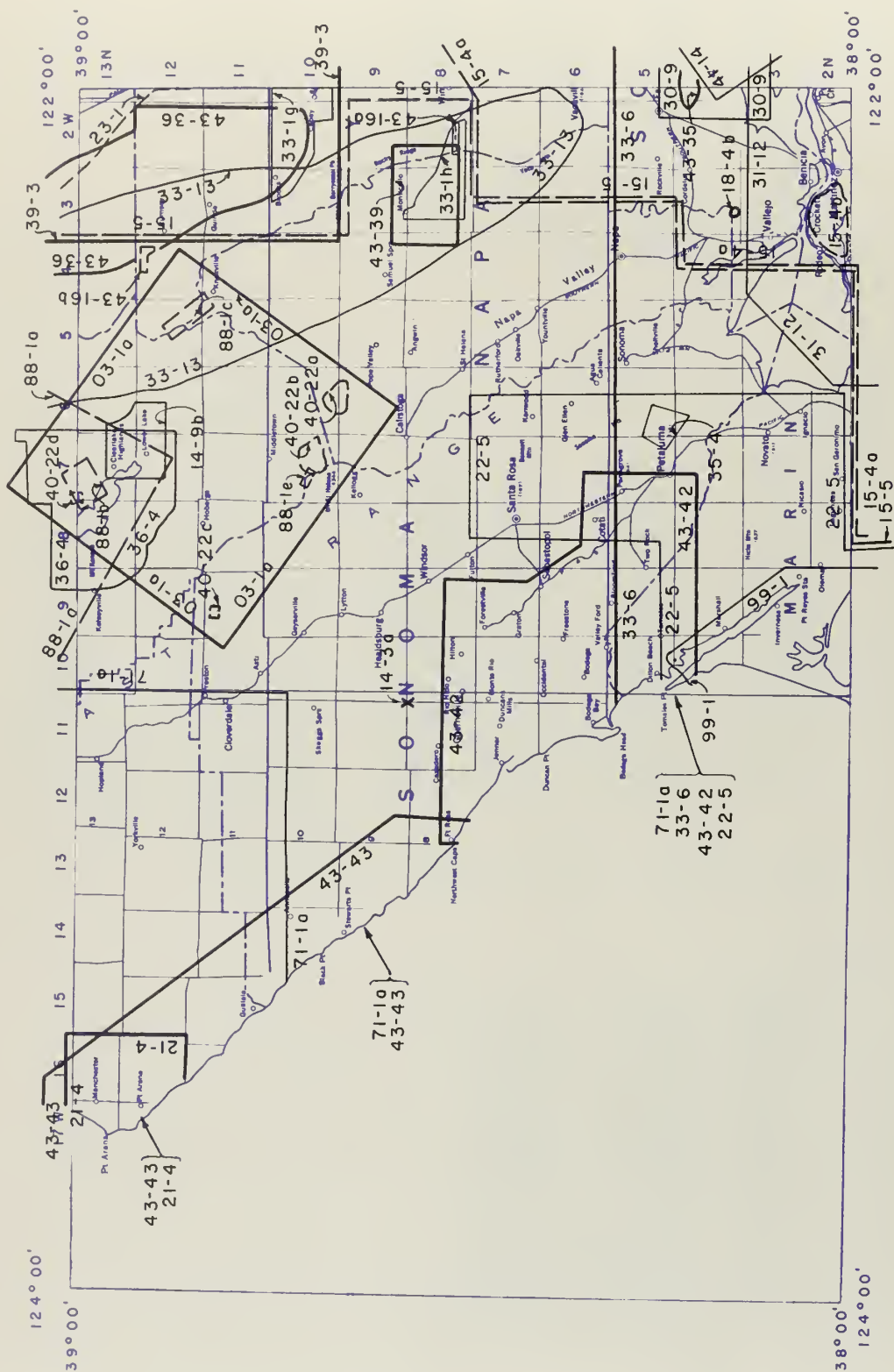
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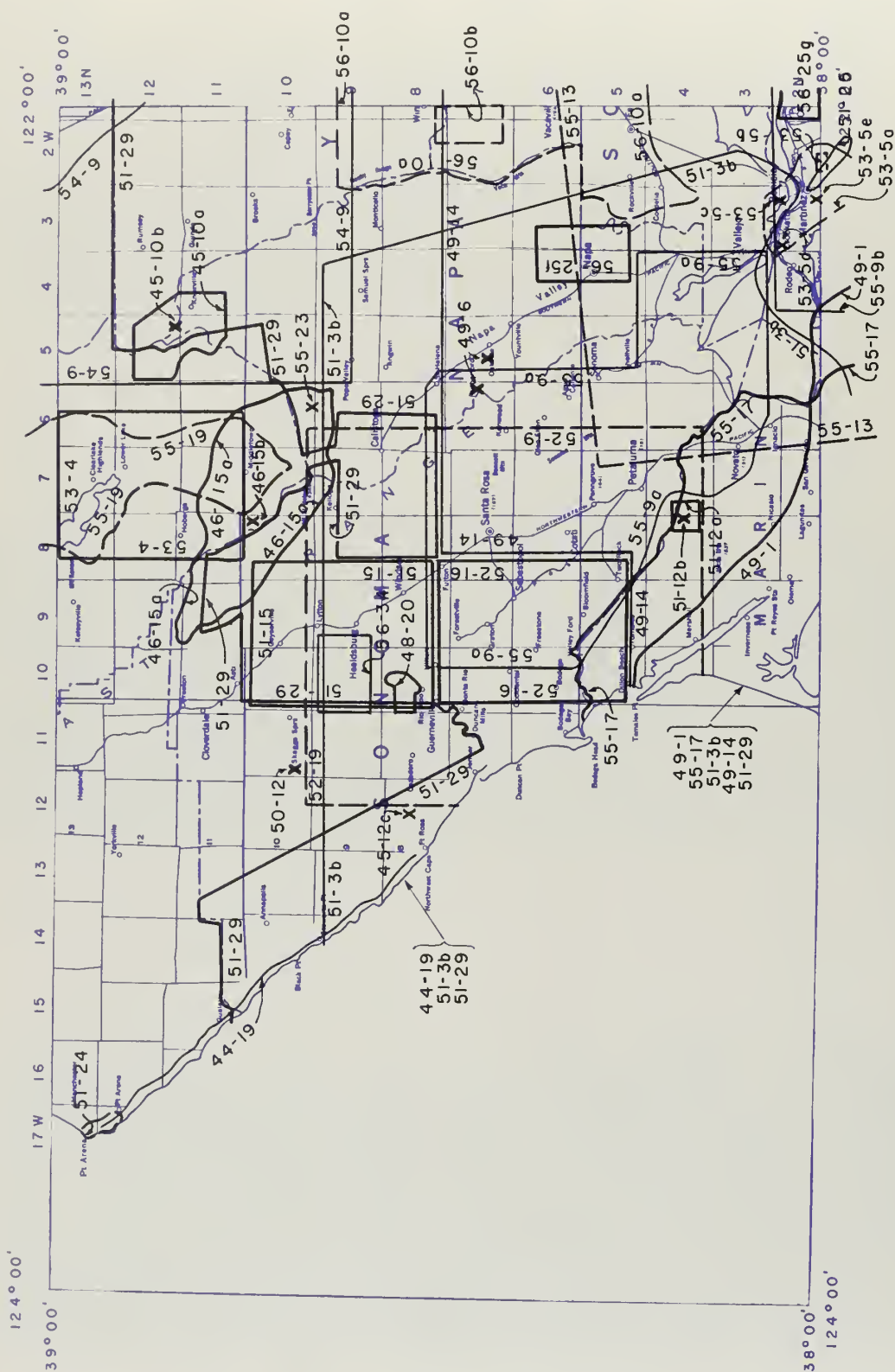
U.S.G.S. X

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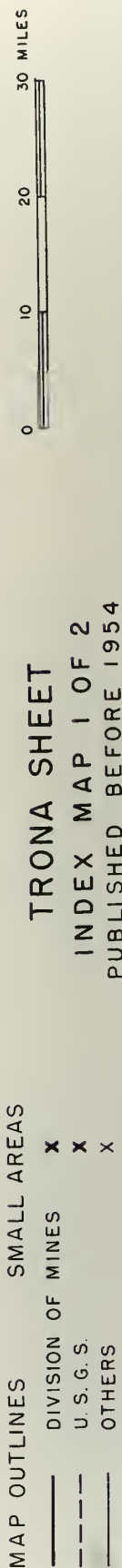
MAP OUTLINES
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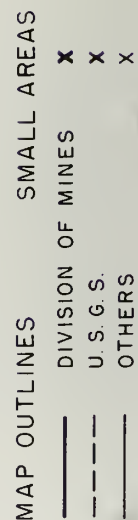
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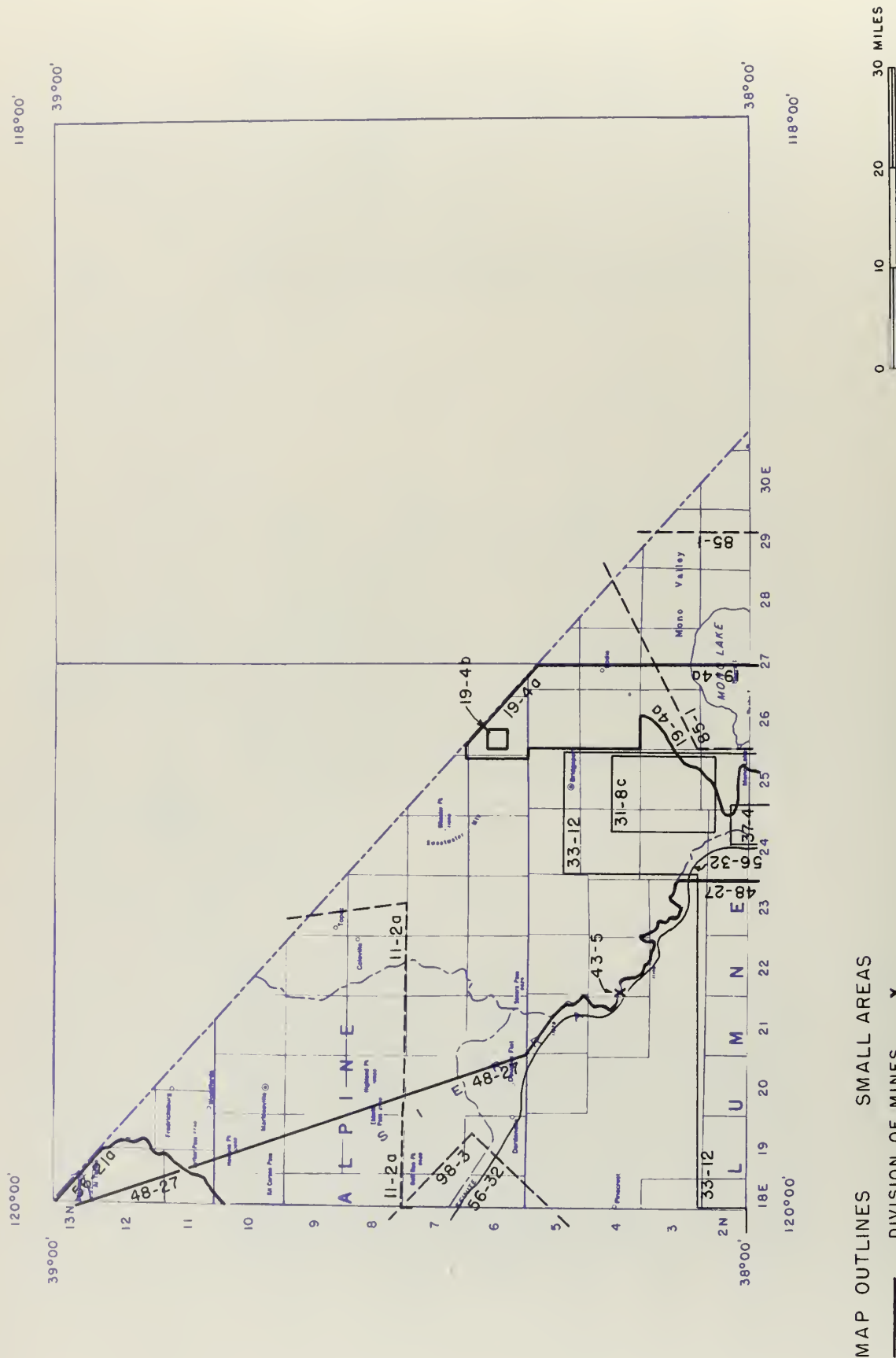


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*Geologic map covers the entire area of the index map sheet.

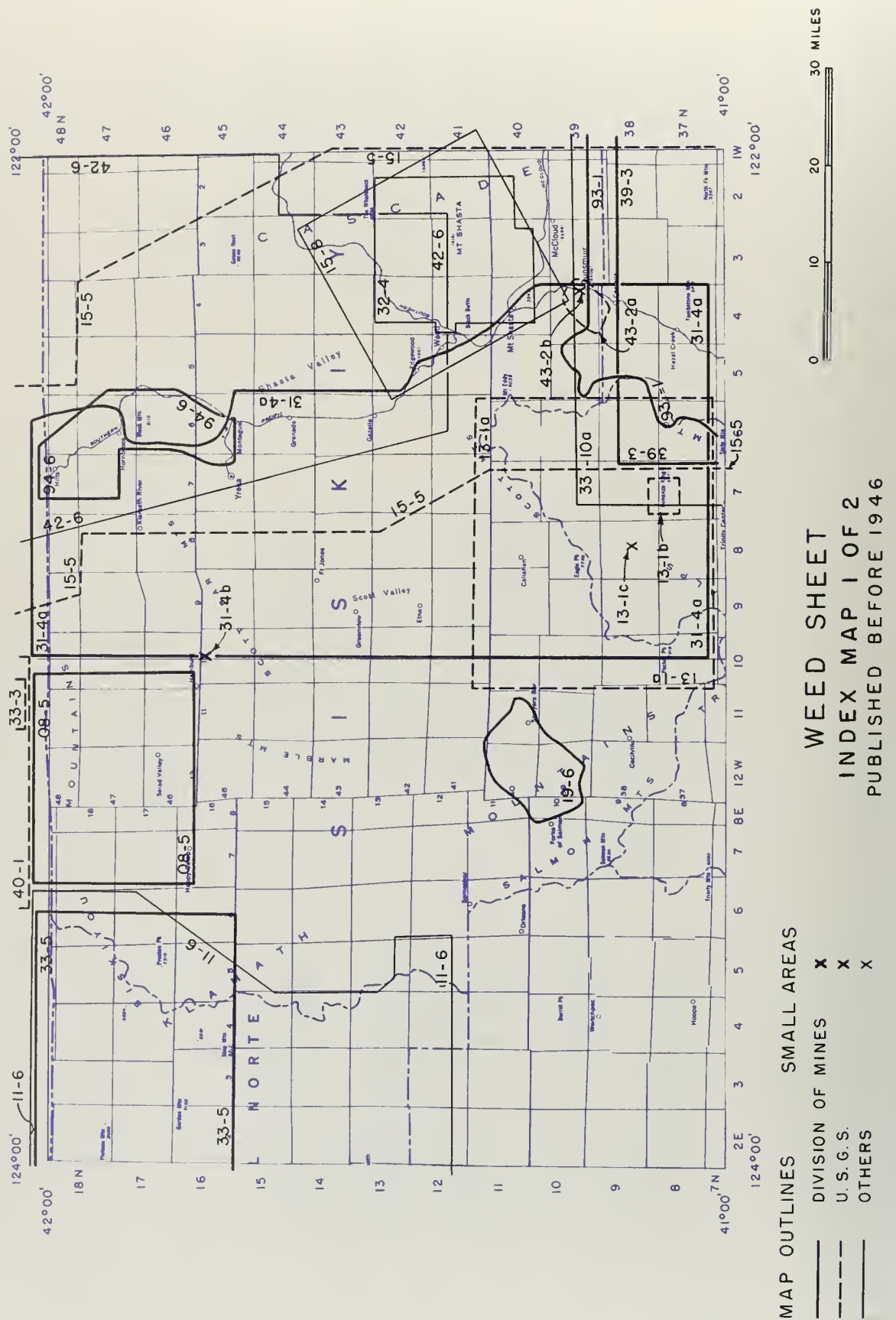


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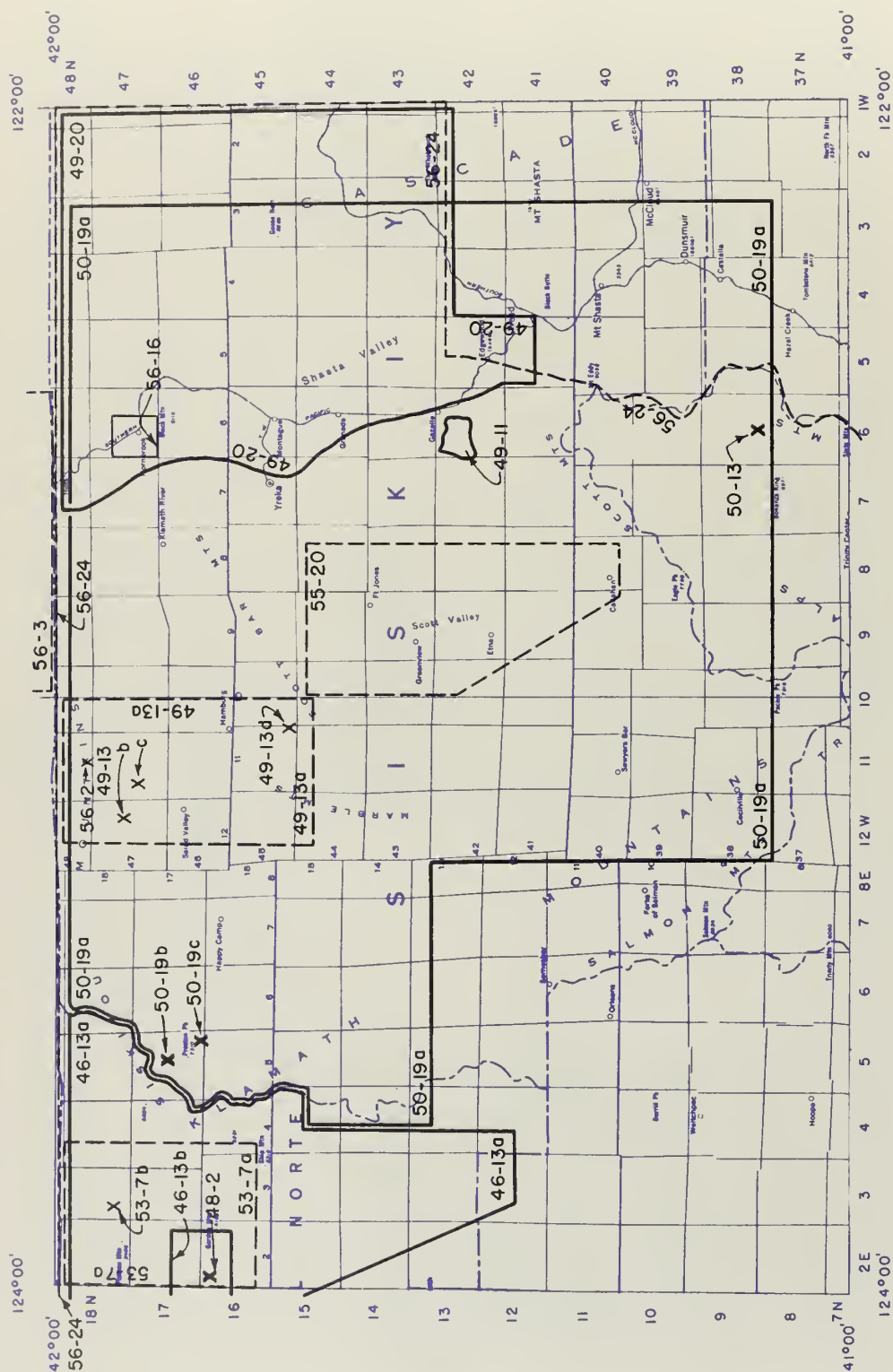
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*Geologic map covers the entire area of the index map sheet.



MAP OUTLINES

SMALL AREAS

DIVISION OF MINES

X

U. S. G. S.

X

OTHERS

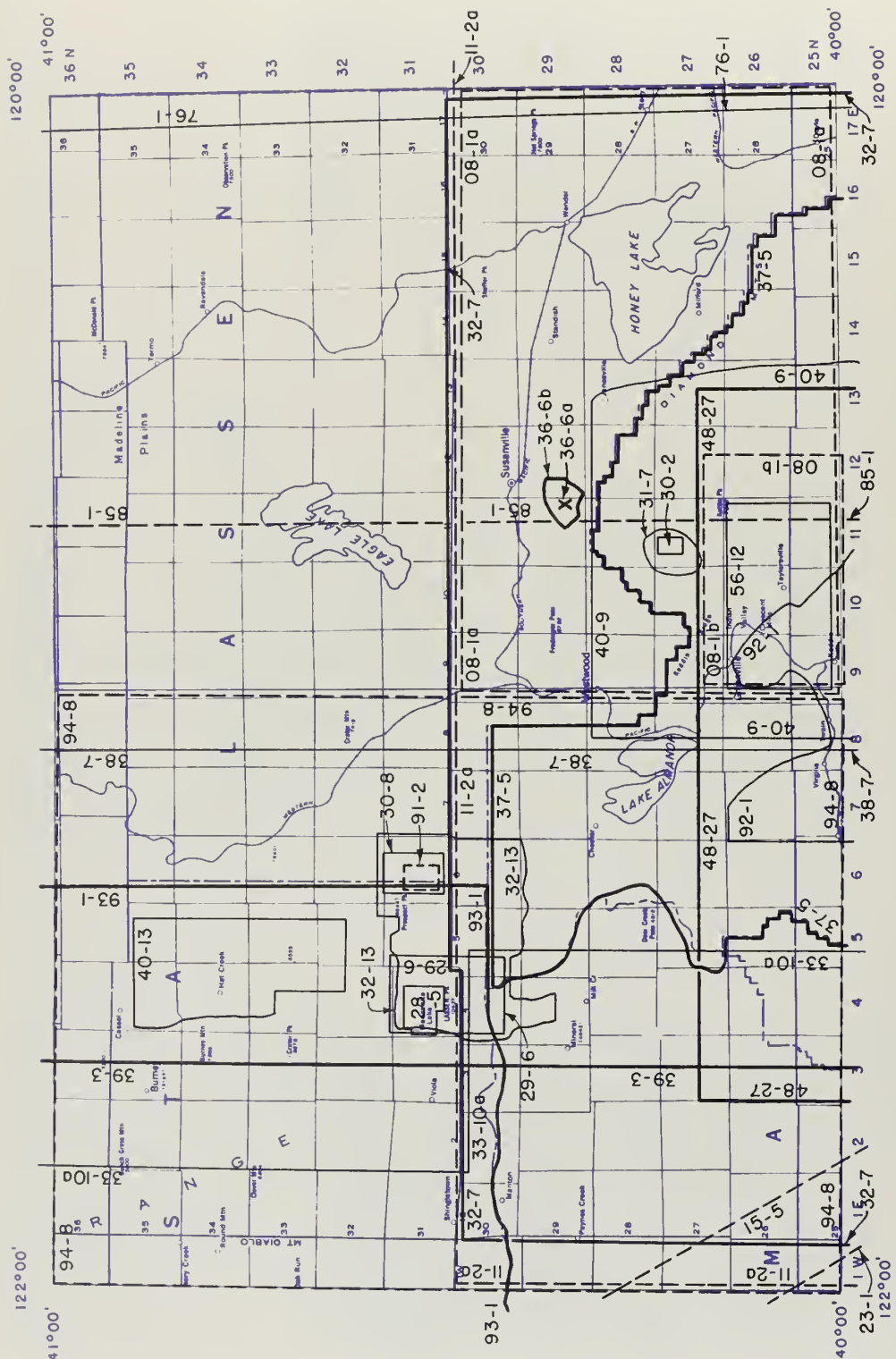
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A Alturas	LA Los Angeles	SF San Francisco
B Bakersfield	LP Long Beach	SJ San Jose
C Chico	M Mariposa	SL San Luis Obispo
D Death Valley	N Needles	SM Santa Maria
E Eureka	R Redding	SR Santa Rosa
EC El Centro	S Sacramento	SS Salton Sea
F Fresno	SA Santa Ana	T Trona
FB Fort Bragg	SB San Bernardino	W Weed
G Goldfield	SC Santa Cruz	WL Walker Lake
K Kingman	SD San Diego	WW Westwood

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Bremner, C. St. J., 1932, LA, LB; 1933, SM.

Brice, J. C., 1953, SR.

Briggs, L. I., Jr., 1953, SC.

Brokaw, A. L., see Richards, A., 1944.

Brooks, B., and Roberts, E., 1954, SD.

Brown, A. B., and Kew, W. S. W., 1932, LA.

Brown, G. F., and Upson, J. E., 1943, SM.

Brown, J. S., 1922, SS, EC, SA, SD; 1923, SS, EC, SA, SD.

Bryan, K., 1923, R, WW, FB, C, SR, S.

Burnham, W. L., 1954, SD, SA; 1955, K. T.

Buwalda, J. P., 1954, B, LA.

Byers, F. M., Jr., 1956, T.

California Div. Mines, 1949, SF, SR; 1951, A; 1956, S.

California Div. Water Resources, 1954, EC, SS, N, K, SB, SA, SD; 1955, SJ, S; 1955, SF, SJ, SR, S; 1956, SJ, S. California State Water Resources Board, 1953, SC, SJ; 1953, LA; 1955, SA; 1955, SC, SJ, SF; 1955, S, C.

Campbell, A. S., see also Clark, B. L., 1942.

Campbell, A. S., and Clark, B. L., 1944, SJ.

Campbell, L., 1948, SB.

Carlson, D. W., see also Davis, F. F., 1952; Clark, W. B., 1956.

Carlson, D. W., 1955, S; and Clark, W. B., 1954, S; and Clark, W. B., 1956, C.

Cartwright, L. D., Jr., 1928, LA.

Cater, F. W., Jr., see also Wells, F. G., 1946, 1949, and 1950.

Cater, F. W., Jr., 1948, SJ; and Rynearson, G. A., and Dow, D. H., 1951, S; and Wells, F. G., 1953, W.

Chapman, R. W., 1937, M.

Chelikowsky, J. R., 1940, M.

Chesterman, C. W., see also Yoder, H. S., 1951; Dibblee, T. W., Jr., 1953; and Wright, L. A., 1954.

Chesterman, C. W., 1942, M; 1951, SR; 1955, A; 1956, A, D, T, S, SR, M.

Clark, B. L., see also Campbell, A. S., 1944.

Clark, B. L., 1912, SJ; 1918, SF; 1921, SJ, LA; 1929, SC, LA, SL, B, F; 1935, SJ, SC, SL, B, F, and Anderson, C. A., 1938, C; and Campbell, A. S., 1942, SJ.

Clark, C. W., 1917, SF.

Clark, L. D., 1954, S.

Clark, S. G., 1940, FB.

Clark, W. B., see also Carlson, D. W., 1954, and 1956.

Clark, W. B., 1954, S; 1955, SJ, S; and Carlson, D. W., 1956, WL, S, C.

Clark, W. O., 1924, SF, SJ, SC.

Clements, T., 1937, LA.

Cloos, E., 1931, SJ, WL, M; 1932, SJ, M; 1935, SJ.

Compton, R. B., 1955, C.

Conkling, H., et al., 1933, LA.

Cooper, A. S., 1899, SM.

Cox, M. W., see also Heyl, G. R., 1948, and Eric J. H., 1948.

Cox, M. W., and Wyant, D. G., 1948, SJ; and Wyant, D. G., 1948, M; and Wyant, D. G., and Heyl, G. R., 1948, S.

Crawford, J. J., 1896, S.

Creasey, S. C., 1946, SA; and others, 1945, R; and Simons, F. S., 1945, FB; and Simons, F. S., 1945, R; and Shride, A. F., 1945, R.

Crippen, R. A., Jr., see also Bowen, O. E., Jr., 1948, and 1951.

Crippen, R. A., Jr., 1951, SL.

Crittenden, M. D., Jr., see Simons, F. S., 1945; and Wilson, I. F., 1945.

Crittenden, M. D., Jr., 1951, SJ.

Crosby, J. W., III, and Hoffman, S. R., 1951, K.

Cross, C. M., see Taff, J. A., 1940.

- Cross, R. K., 1943, SM.
 Crowell, J. C., 1950, LA; 1952, LA; 1952, LA; 1952, LB; 1954, LA 1954, LA.
 Cunningham, G. M., 1926, B, LA.
 Curran, J. F., 1943, B.
 Curry, H. D., 1954, D.
- Daley, A. C., see Durrell, C., 1953, and 1954.
 Daly, J. W., 1935, SB.
 Darton, N. H., 1933, SS, EC, SB, LA, LB, SA; and others, 1915, K, N, SB, LA.
 Daviess, S. N., see also Bramlette, M. N., 1944.
 Daviess, S. N., and Woodford, A. O., 1949, SB, SA, LB, LA; and Bramlette, M. N., 1953, SA; and Bramlette, M. N., 1953, SA.
 Davis, F. F., 1955, SF; and Carlson, D. W., 1952, SC, SJ; and Jennings, C. W., 1954, SC, SJ, SF.
 Davis, G. H., and Olmstead, F. H., 1952, S, C.
 De Bethune, P., 1937, SJ.
 Dehlinger, P., 1952, LA.
 Dennis, P. E., 1947, SB.
 Dibblee, T. W., Jr., see also Hill, M. L., 1953.
 Dibblee, T. W., Jr., 1950, SM; 1952, T; 1954, EC, SD, SA, SS, 1954, T; 1955, LA, B; and Schwade, I. T., 1952, B, LA, SL and Chesterman, C. W., 1953, B.
 Dickerson, R. E., 1913, C; 1914, SB; 1914, SA; 1914, SR, SJ; 1916, SF, SJ; 1922, SF, SR.
 Diller, J. S., 1890, R 1891, WW; 1894, WW; 1889, WW; 1906, R; 1908, WW; 1915, W, A; and others, 1915, SL, SM, LA, LB, W, R, FB, SR, SF, WW, C, S, SJ, SC.
 Dolman, S. G., 1941, SM; 1941, LA.
 Donnelly, M., 1934, SD, SA.
 Dorr, J. V. N., see Lemmon, D. M., 1940.
 Douglas, J. M., 1943, SF.
 Dow, D. H., see Cater, F. W., Jr., 1951.
 Dudley, P. H., 1935, SA; 1943, SA.
 Duncan, D. C., see Holmes, C. N., 1951.
 Dunn, R. L., 1894, W.
 Durham, D. L., see Winterer, E. L., 1954.
 Durrell, C., 1940, F; 1943, F; 1944, C; 1954, LA; and Bell, G. L., 1944, SA; and Daley, A. C., 1953, T, SA, SB, N; and Daley, A. C., 1954, T, SB; and Proctor, P. D., 1948, C.
- Eagle, A. S., and McLaughlin, R. P., 1919, M, WL.
 Easton, W. H., and Imlay, R. W., 1955, SL.
 Eaton, J. E., 1926, SB, SA, LA, LB; 1929, LA; 1939, B, LA; 1939, LA; 1943, B, LA; and Grant, U. S. IV, and Allen, H. B., 1941, B, LA.
 Eckel, E. B., and Yates, R. G., and Granger, A. E., 1941, SL; and Myers, W. B., 1946, SC.
 Eckel, E. C., 1933, SF, SJ, SR, S.
 Eckis, R., 1928, SB; 1934, SB, SA, LB, LA.
 Eldridge, G. H., 1901, SL, SM; and Arnold, R., 1907, LA, SB, SA, LB.
 Ellis, A. J., and Lee, C. H., 1919, SD, SA.
 Emery, K. O., see also Bandy, O. L., 1954.
 Emery, K. O., 1951, SM, LA, LB, SA, SD; and others, 1952, SD.
 Engel, R., 1949, SA.
 English, W. A., see also Pack, R. W., 1914.
 English, W. A., 1916, B, LA; 1918, SC, SL; 1921, B, SL; 1926, SA, SB, LA, SB; 1929, B.
 Eric, J. H., see also Heyl, G. R., 1948.
 Eric, J. H., 1948, C; and Cox, M. W., 1948, SJ; and Stromquist, A. A., and Swinney, C. M., 1955, S, SJ.
 Erickson, M. P., see also Bateman, P. C., 1950.
 Erickson, M. P., and Stopper, R. F., 1945, T.
 Erwin, H. D., see also Averill, C. V., 1936.
 Erwin, H. D., 1934, M; 1937, M; and Gardner, D. L., 1940, SB.
 Everhart, D. L., see also Myers, W. B., 1948.
 Everhart, D. L., 1943, SR, FB; 1946, SR, FB; 1950, SR; 1950, LA; 1951, SD.
- Fairbanks, H. W., 1893, R, W, A, WW; 1893, SS, SA, SD, EC; 1904, SL; 1910, SJ, M, S.
 Farnsworth, H. R., see Woodring, W. P., 1932.
 Ferguson, H. G., 1914, R; 1914, C; 1915, R; and Gannett, R. W., 1932, C.
 Fiedler, W. M., 1944, SC.
 Fine, S. F., see also Wiese, J. H., 1950.
 Fine, S. F., 1954, LA.
 Finch, R. H., 1937, WW; and Anderson, C. A., 1930, WW.
- Fitch, A. A., 1931, SF.
 Fix, P. F., 1955, SR; and Swinney, C. M., 1949, SR.
 Forbes, H., 1931, S, SJ, M, F; 1933, C, S, SR; 1941, SR, S, SJ, M, SC, F, SL, B.
 Forstner, W., 1903, FB, SR, SJ, SL, SC.
 Foshag, W. F., and Woodford, A. O., 1936, SB.
 Fox, L. S., 1929, B.
 Frame, R. G., 1941, SM.
 Franke, H. A., see Logan, C. A., 1936.
 Fraser, D. M., 1931, SA; and Wilson, H. D. B., and Hendry, N. W., 1942, D.
- Gale, H. S., 1914, SR, SJ, SC, SA; 1914, LA; 1932, SB, SA, LA, LB; 1934, SB, SA, LA, LB; 1946, T; 1951, N.
 Galliher, E. W., 1932, SC.
 Galloway, J., see Gester, G. C., 1933.
 Gannett, R. W. see Ferguson, H. G., 1932.
 Gardner, D. L., see also Erwin, H. D., 1940.
 Gardner, D. L., 1940, SB.
 Garrett, A. A., and Thomasson, H. G. Jr., 1949, SA.
 Gay, T. E., Jr., and Hoffman, S. R., 1954, LB, LA, SB, SA; and Wright, L. A., 1954, D.
 Gealey, W. K., 1951, SR.
 Geol. Soc. America, 1955, SJ, SF, SR, S.
 Geol. Soc. of Sacramento, 1956, WW.
 Gester, G. C., 1917, B; 1951, E, R, SF, SR; and Galloway, J., 1933, SC, F, SL, B.
 Gilbert, C. M., 1938, M; 1941, M; 1943, SJ.
 Granger, A. E., see Eckel, E. B., 1941.
 Grant, U. S., IV, see Soper, E. K., 1932, Hertlein, L. G., 1939, 1943, 1944, and 1954; and Eaton, J. E., 1941.
 Graves, D. T., 1954, LB.
 Gray, C. H., Jr., 1954, SA.
 Griggs, A. B., see Smith, C. T., 1944, and Walker, G. W., 1953.
 Guillemin-Tarayre, E., 1871, SR, FB, C, S, WL, M, SJ, SF, SM, LA, SB, LB, SA, SD.
 Guillou, R. B., 1953, SB.
- Hadley, J. B., 1942, SS; 1948, SS.
 Haines, R. B., and Minshall, F. E., 1954, LA.
 Hall, W. E., see Kinkel, A. R., Jr., 1951, 1952, 1954, and 1956.
 Ham, C. K., 1952, SF.
 Hamilton, W. B., 1956, M; 1956, M; and Neuerburg, G. J., 1956, M.
 Hamlin, H., 1921, R.
 Hanks, H. G., 1886, N, SA, SS, SD, EC.
 Hanley, J. G., 1951, SA.
 Hanna, G. D., see Anderson, F. M., 1925; and Taff, J. A., 1940.
 Hanna, M. A., 1926, SD.
 Harder, E. C., 1912, SS; and Rich, J. L., 1910, N.
 Harrington, W. C., see Rist, R. L., 1943.
 Harris, P. B., 1954, B, LA.
 Harriss, T. F., see Woodford, A. O., 1928.
 Hawkes, H. E., Jr., Wells, F. G., and Wheeler, D. P., Jr., 1942, SJ; and Wheeler, D. P., Jr., 1943, W.
 Hazenbush, G. C., 1952, T.
 Hazzard, J. C., 1933, K, N; 1954, N, K.
 Heikkila, H. H., and MacLeod, G. M., 1951, B, SL.
 Hendry, N. W., see Fraser, H. J., 1942.
 Henny, G., 1930, SC; 1938, SC; 1938, B, LA.
 Henshaw, P. C., 1942, EC.
 Herring, D. G. Jr., 1954, LA.
 Hershey, O. H., 1902, B, T, LA, SB; 1911, E, W; 1915, R.
 Hertlein, L. G., and Grant, U. S., IV, 1939, SD; 1943, SD; 1944, SD; 1954, SD.
 Hess, F. L., 1908, F; and Larsen, E. S., 1920, M, B.
 Hetland, D. L., 1955, DV; 1955, C.
 Hewett, D. F., 1931, K; 1954, SB, LA, B, T, N, K; 1955, SB, LA, B, T, N, K; 1956, K; and others, 1936, T, SB.
 Hewett, R. L., see May, J. C., 1948.
 Heyl, G. R., see also Cox, M. W., 1948.
 Heyl, G. R., 1946, S; 1948, WW, C, S, SJ, SC, WL, M, F; 1948, S; 1948, SJ; 1948, SJ; and Cox, M. W., and Eric, J. H., 1948, S; and Eric, J. H., 1948, S; and Walker, G. W., 1949, W; and Wiese, J. H., 1949, SJ.
 Hietanen, Anna, 1951, C.
 Higgins, C. G., 1952, SR.
 Higgs, D. V., 1954, LA.
 Hill, J. M., 1914, K; 1915, A.
 Hill, M. L., 1930, LA; and Dibblee, T. W., Jr., 1953, LA.
 Hillier, R. L., see also Nelson, H. E., 1954.
 Hillier, R. L., 1954, K.

- Hilpert, L. S., see Yates, R. G., 1945, and 1946.
Hinds, N. E. A., 1934, R; 1935, R.
Hobson, H. D., 1943, LA.
Hobson, J. B., 1890, S, C; 1890, S.
Hoffman, S. R., see Crosby, J. W., III, 1951; and Gay, T. E., Jr., 1954.
Hollister, J. S., see Reed, R. D., 1936.
Holmes, C. N., see also Williams, M. D., 1945.
Holmes, C. N., Page, B. M., and Duncan, D. C., 1951, SR.
Hoots, H. W., 1928, R, E, FB; 1930, B, LA; 1931, LA, LB; and others, 1954, B, LA, SL, SC, SJ, M, F.
Hopper, R. H., 1947, F. D.,
Hoppin, R. A., 1954, SS.
Hotz, P. E., see Wells, F. G., 1949.
Howell, B., Jr., 1954, LA.
Hsu, K. J., 1955, SB.
Hudson, F. S., 1922, SD, SA; 1948, C; 1951, C; 1955, LA; and White, G. H., 1941, B.
Huey, A. S., 1948, SJ.
Hulin, C. D., 1925, T.
Hurlbut, C. S., Jr., 1935, SA.
Hutchinson, R. M., see Rynearson, G. A., 1956.

Imlay, R. W., see Schlocker, J., 1954; Easton, W. H., 1955; and Peck, D. L., 1956.
Israelsky, M. C., see also Vedder, J. G., 1956.
Israelsky, M. C., 1951, SC.
Irwin, W. P., see also Bateman, P. C., 1954.
Irwin, W. P., and Tatlock, D. B., 1956, FB, R, W, E.

Jaffe, H. W., 1955, K.
Jahns, R. H., see also Bailey, T. L., 1954.
Jahns, R. H., 1954, SA, SB, LA; 1954, SA, EC, SS, SD, LB, LA, SB; and Lance, J. F., 1950, SA; and Muehlberger, W. R., 1954, LA; and Wright, L. A., 1951, SA.
James, H. L., see Wells, F. G., 1940.
Janin, C., see Aubury, L. E., 1910.
Jenkins, O. P., 1932, SJ, WW, C, S; 1933, SJ, WL, M, SF, SR, S; 1938, Entire State.
Jenkins, W. O., 1943, F.
Jennings, C. W., see also Davis, F. F., 1954.
Jennings, C. W., 1953, LA; 1953, B, SL, SC, F; 1954, S, SR, FB; and Troxel, B. W., 1954, LA.
Johnson, F. A., 1943, SR.
Johnson, F. T., and Ricker, S., 1948, S.
Johnson, H. R., see also Arnold, R., 1910.
Johnson, H. R., 1943, C.
Johnston, W. D., Jr., 1940, C.
Jones, G. H., 1940, SJ, M, SC, F.
Jones, W. F., 1911, SC.

Kachadoorian, R., 1956, SF.
Kanaya, T., 1957, SJ.
Kasline, F. E., 1953, B, LA.
Keen, A. M., 1943, B.
Keevill, N. B., see Larsen, E. S., Jr., 1947.
Kelley, F. R., 1943, SM.
Kelley, V. C., 1937, D; 1938, D.
Kellogg, J. L., see Ransome, A. L., 1939.
Kerr, P. F., and Schenck, H. G., 1925, SC.
Kesseli, J. E., 1939, M.
Kew, W. S. W., see also Brown, A. B., 1932; and Woodring, W. P., 1946.
Kew, W. S., W., 1914, SS, EC, SD, SA; 1919, LA; 1919, LA; 1924, LA; 1927, SM, LB.
Kiersch, G. A., and Treasher, R. C.; 1955, S.
Kilkenny, J. E., 1948, SC, SL, B.
King, C., 1876, A, WW, C.
Kinkel, A. R., Jr., 1955, R; and Albers, J. P., 1951, R; and Hall, W. E., 1951, R; and Hall, W. E., 1952, R; and Hall, W. E., and Albers, J. P., 1954, R; and Hall, W. E., and Albers, J. P., 1956, R.
Kinney, D. M., see Schoellhamer, J. E., 1953.
Kirby, J. M., 1943, SR, FB; 1943, FB, SR; 1943, FB.
Kleinpell, R. M., see Woodring, W. P., 1936.
Knopf, A., 1915, K; 1918, M, F, D; 1929, SJ, S; and Anderson, C. A., 1930, WW; and Thelen, P., 1905, F.
Kramm, H. E., 1912, R.
Krauskopf, K. B., 1947, M; 1953, F, M, B.
Krueger, M. L., see also Simonson, R. R., 1942.
Krueger, M. L., 1943, SL.
Kundert, C. J., 1952, LB, SA; 1955, SA; 1955, T; 1955, LB; 1955, LA; 1955, B; 1955, SM; 1955, SL, 1955, D.

Kunkel, F., see also Upson, J. E., 1955.
Kunkel, F., 1956, T, SB; 1956, SS; and Riley, F. S., 1956, T; 1954, K, T; and Bassett, A. M., 1956, SS, N, SB, T, K.

Laizure, C. McK, 1925, R.
Lamey, C. A., 1948, SB, T; 1948, K; 1948, T; 1948, N; 1948, N; 1948, N; 1948, R; 1948, R.
Lance, J. F., see Jahns, R. H., 1950.
Langenheim, R. L., Jr., F.
Larsen, E. S., see Hess, F. L., 1920, and 1922.
Larsen, E. S., Jr., 1948, SA; and Keevil, N. B., 1947, SA.
Lawson, A. C., 1893, SC; 1895, SF; 1914, SF; and others, 1908, SF; and Palache, C., 1902, SF.
Lebow, R., see Miller, J. C., 1944.
Lee, C. H., see Ellis, A. J., 1919.
Lee, W. T., and others, 1915, SR, SF, SJ, S, C.
Leith, C. J., 1949, SC.
Lemmon, D. M., 1941, M; 1941, M; 1941, M; and Bateman, P. C., 1943, WL; and Dorr, J. V. N., 1940, T; and Wyant, D. G., 1943, B.
LeRoux, E. F., see Thomasson, H. G., Jr., 1956.
Lian, H. M., 1954, LA.
Lindgren, W., see Turner, H. W., 1895.
Lindgren, W., 1887, SB; 1892, C; 1894, S; 1894, S; 1896, C; 1896, S; 1896, C; 1897, C; 1900 C; 1911, SJ, M, S, C, WL, WW; and Turner, H. W., 1894, S; and Turner, H. W., 1895, C.
Little, J. M., 1942, S; 1942, M; 1942, M.
Locke, A., Billingsley, P. R., and Mayo, E. B., 1940, SJ, WL, M, F, B, T, D, G, WW, C, S.
Logan, C. A., see also Bradley, W. W., 1919.
Logan, C. A., 1919, W, E; 1925, C; 1934, SJ, M, S; and Franke, H. A., 1936, S.
Lohman, K. E., see Woodring, W. P., 1943.
Loofbourov, J. S., Jr., see Woodring, W. P., 1945.
Lorens, P. J., and Thronson, R. E., 1955, R, FB, C, S.
Louderback, G. D., and Ransome, F. L., 1931, R.
Lovering, T. G., see Walker, G. W., 1956.
Lutz, G. C., 1951, SF, SR.
Lynton, E. D., 1938, G.

McAllister, J. F., 1949, D; 1951, D; 1952, D; 1955, D; 1956, D.
McCulloh, T. H., 1957, LB, LA.
MacDonald, D. F., 1913, W.
MacDonald, G. A., 1941, F, 1941, F.
MacGintie, H. D., 1943, R.
Mack, S., 1955, W.
MacKevett, E. M., 1949, D; 1951, SB; 1953, D.
McLaughlin, R. P., see also Eakle, A. S., 1919.
McLaughlin, R. P., and Waring, C. A., 1915, LA, SB, LB, SA, SC, B, SL.
MacLeod, G. M., see Heikkila, H. H., 1951.
Mann, J. F., Jr., 1951, SA, 1955, SA.
Manning, G. A., and Ogle, B. A., 1950, R.
Marks, J. G., see also Page, B. M., 1951.
Marks, J. G., 1943, LA.
Marliave, C., 1931, R.
Martin, B., see Anderson, F. M., 1914.
Martin, L., 1952, LA.
Mason, J. F., 1948, T.
Matthes, F. E., 1930, M.
Maxson, J. H., 1933, W, E.
May, J. C., and Hewitt, R. L., 1948, B.
Mayo, E. B., see also Locke, A., 1940.
Mayo, E. B., 1934, M; 1937, M, F; 1941, M, F; 1947, F, D, B, T, LA.
Menard, H. W., and others, 1954, LB.
Menken, F. A., 1940, SC.
Merriam, C. W., see Bateman, P. C., 1954.
Merriam, R. H., 1941, SA; 1946, SA; 1948, SA; 1951, SD, SA; 1954, SA.
Merrill, W. R., 1954, LA.
Michelin, J., 1943, SC.
Miller, F. S., 1937, SA.
Miller, J. C., and Lebow, R., 1944, LA.
Miller, W. J., 1926, SB; 1928, M, G; 1931, LA; 1931, B, T; 1934, SB, LA; 1935, SD, EC; 1938, N, SB, SA, SS; 1944, SS, SA; 1944, SB; 1944, K, N; and Webb, R. W., 1940, B.
Mills, J. E., 1892, WW, C.
Minshall, F. E., see Haines, R. B., 1954.
Moody, C. L., 1917, C.
Moore, B. N., 1935, SB.
Moran, T. G., see Woodford, A. O., 1944, 1946.

- Morse, R. R., and Bailey, T. L., 1935, SR.
Moxham, R. M., 1952, T, LA, SB, SS, SA, N; and Walker, G. W., and Baumgardner, L. H., 1955, SB.
Muehlberger, W. R., see also Jahns, R. H., 1954.
Muehlberger, W. R., 1954, T.
Murdoch, J., and Webb, R. W., 1942, SA.
Murphy, F. M., 1930, D; 1932, T, D.
Murphy, M. A., 1956, R.
Myers, W. B., see also Bailey, E. H., 1942; and Eckel, E. B., 1946.
Myers, W. B., and Everhart, D. L., 1948, SR.
- Nelson, H. E., and Hillier, R. L., 1954, B.
Nelson, R. N., 1925, LA; 1925, LA.
Neuerburg, G. J., see also Hamilton, W. B., 1956.
Neuerburg, G. J., 1953, LA.
Newsom, J. F., see also Branner, J. C., 1909.
Newsom, J. F., 1903, SL, SF, SC.
Nickell, F. A., 1942, R, M.
Nobel, J. A., 1954, B, LA.
Nobel, L. F., 1931, T, D; 1941, T; 1953, LA; 1954, SB, LA; 1954, SB, LA; and others, 1922, T; and Wright, L. A., 1954, T, D.
Nomland, J. O., and Schenck, H. G., 1932, SC.
Norbeck, H. P., see Pierce, W. G., 1943.
Norman, L. A., see Wright, L. A., 1954.
- Oakeshott, G. B., 1937, LA; 1948, LA; 1950, LA; 1951, SC, SL; 1954, LA; 1954, LA; 1956, LA.
Ogle, B. A., see also Manning, G. A., 1950.
Ogle, B. A., 1953, E.
Olmsted, F. H., see also Davis, G. H., 1952; and Thomasson, H. G., Jr., 1956.
Olmsted, F. H., 1950, SB; 1953, SA, SD; 1956, LB.
Olson, J. C., see also Sharp, W. N., 1951.
Olson, J. C., 1952, K; 1952, K; and others, 1954, K; and Pray, L. C., 1954, K.
Orange County Board of Engineers, 1932, SA.
Osborn, E. F., 1939, SA.
- Pack, R. W., see also Anderson, R., 1915.
Pack, R. W., 1914, T, SB; 1920, B, LA; and English, W. A., 1914, SC.
Packard, E. L., 1916, SA.
Page, B. M., see Holmes, C. N., 1951.
Page, B. M., 1943, SJ; 1950, SF; 1951, D, and others, 1944, SL; and others, 1945, SC, SF; and others, 1945, B; and Wright, L. A., 1943, R; and Marks, J. G., and Walker, G. W., 1951, LA.
Page, L. R., see also Wiese, J. H., 1946; and Wells, F. G., 1940.
Page, L. R., and Thayer, T. P., 1945, SA.
Palache, C., see Lawson, A. C., 1902.
Paschall, R. H., 1954, LA.
Pask, J. A., and Turner, M. D., 1952, S.
Payne, M. D., 1951, SC, SJ.
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Sharp, R. P., 1954, K; 1957, K.
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 Turner, H. W., 1891, SJ; 1892, C; 1894, S, C; 1894, S; 1897, C; 1898, SJ; 1898, C; and Lindgren, W., 1895, C; and Ransome, F. L., 1897, SJ; and Ransome, F. L., 1898, S.
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 Wallace, R. E., 1949, LA.
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 Weaver, C. E., 1943, FB, SR; 1944, SR; 1949, SF, SR, S; 1953, SF, SR.
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 Webb, R. W., 1946, F; 1950, F.
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 Winston, W. B., see Aubury, L. E., 1910.
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